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WOODRUFF'S

DESCRIPTIVE
LIST OF

Vegetable Varieties



F. H. WOODRUFF & SONS, Inc.
MILFORD, CONN., U. S. A.



DESCRIPTIVE LIST OF VEGETABLE VARIETIES

SECOND EDITION



**F. H. WOODRUFF & SONS, INCORPORATED
Seed Growers**

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Woodruff's Descriptive List

This descriptive catalog has been prepared to give our dealers and customers access to accurate comparative information concerning the many varieties of vegetables predominantly in demand at the present time. It makes no effort to catalog all the known varieties either of the past or present. In it we have pooled our own trials and breeding experience with that of others to delineate more exactly the various small differences existing among many varieties.

When new varieties have made this information out of date, we expect to make necessary revisions in later editions. At no time do we expect to include in this list novelty varieties which will have no useful place in a descriptive list of vegetables.

Maturity dates noted in this list are the average number of days from seed planting to crop harvest in marketable or canning stage for all those varieties which are usually grown directly from seed. In the case of brussels sprouts, cabbage, cauliflower, celery, eggplant, pepper and tomato, the maturity dates show time from setting of plants in the field to crop harvest.

ALL-AMERICA AWARD SELECTIONS This symbol appears after the names of varieties which have received recognition in the All-America Selections trials, the type of award and the year being shown also. The All-America Selections trials and awards have been sponsored by the American Seed Trade Association since 1933. New varieties are tested by expert judges in trials held in twenty different locations throughout the United States, and the identities of the varieties are concealed under code numbers to insure impartial judgment. The awards are based on points given for distinctiveness, general usefulness, adaptability and uniformity. Many of these A.A.S. varieties are really outstanding, and each year the announcement of the awards is an event of importance in the seed and vegetable industries.

In this list, many of the vegetable varieties considered suitable for quick freezing are indicated by a star (★) before the name.

ARTICHOKE

Cynara scolymus

GREEN GLOBE (PARIS)

Grown for edible flower buds. Perennial, producing first buds the second year from seed; flower buds large, globular, bud scales dark green and very fleshy at base. Not to be mistaken for the tuberous types of artichokes, GIRASOLE or JERUSALEM ARTICHOKE (*Helianthus tuberosus*) or the CHINESE ARTICHOKE (*Stachys sieboldii*).

ASPARAGUS

Asparagus officinalis

★MARY WASHINGTON

Rust resistant. Developed by U. S. Dept. of Agriculture. Heavy yielder, producing large clusters of early, large, bright green spears with tightly folded purple tinted tips; fine quality and very uniform. Excellent for canning, freezing or market.

BEANS

Phaseolus vulgaris

DWARF GREEN POD

ASGROW STRINGLESS VALENTINE (STRINGLESS BLACK VALENTINE)

ALL-AMERICA AWARD SELECTIONS

Silver Medal 1933 52 days

Pods: 6½-7 x ¾-7/16", semi-round, curved at tip, stringless, slightly fibrous, dark green. Retains color well in distant shipping.

Bush: 16-18", erect, dark green foliage, very productive.

Seed: Small, oval, jet black.

BLACK VALENTINE

. 47-50 days

Pods: 5½-6 x ¾-7/16", oval, slightly curved or curved at tip, stringy and fibrous unless picked young, dark green. Used for early market.

Bush: 13-17", erect, medium green, very vigorous and hardy. Fairly productive.

Seed: Medium sized, oval, glossy jet black.

BOUNTIFUL

. 46-49 days

Pods: 6½-7 x ½-¾", flat to thick-flat, slightly curved, stringless but fibrous unless picked young, light green. Leading early local market and shipping variety.

Bush: 16-18", erect, medium green, compact, vigorous and prolific.

Seed: Medium size, squared ends, cartridge buff with brown eye spot, becoming darker with age.

BURPEE'S STRINGLESS GREEN POD (LANDRETH STRAIN)

. 50 days

Pods: 5½-6" x ¾-7/16", round to slightly flattened, straight to curved at tip, stringless, fiberless, medium to dark green, excellent quality and flavor. Pods are formed high enough to clear the ground and retain their color well.

Bush: 16-17", slightly spreading, dark green, vigorous, productive.

Seed: Medium size and square ended, coffee or chocolate brown.

DIXIE WHITE

. 50-53 days

Pods: 5-5½ x ¾-7/16", round, straight to curved at tip, stringless while young, fairly free of fiber, medium green. Used in South for green and dry shell bean.

Bush: 14-18", erect, compact, medium green, productive.

Seed: Small, oval, white.

**DWARF HORTICULTURAL (DWARF CHERRY, DWARF OCTOBER,
RUBY, SPECKLED CRANBERRY) 52-55 days**

Pods: $4\frac{1}{2}$ -5 x $\frac{5}{8}$ - $\frac{3}{4}$ ", semi-round, straight to slightly curved, stringless, fibrous, light green in snap stage, becoming pale yellow-green, with prominent splashes of scarlet or carmine in shell bean stage, beans prominent in pod. Used for canning in eastern United States. Used also as shell out bean.

Bush: 15-17", slightly sprawling, dark green, coarse foliage, leaflets slightly crumpled; prolific, very vigorous.

Seed: Small, thick oval shape, pink tinged, buff ground color with irregular splotches of carmine or maroon.



TENDERGREEN

DWARF HORTICULTURAL, LONG POD 52-55 days

Pods 5-6 x $\frac{9}{16}$ - $\frac{5}{8}$ ", flat at snap stage, oval at shell stage. Stringy, fibrous, light green at snap stage changing to chamois brightly splashed with carmine at shell stage, moderately indented between beans.

Bush: 15-18", erect, moderately vigorous, leaves large dark green, holds pods up well.

Seed: Same as Dwarf Horticultural, though slightly larger.

FLORIDA BELLE ALL-AMERICA SELECTIONS Honorable Mention 1945 . 60-62 days

Pods: $5\frac{3}{4}$ - $6\frac{1}{4}$ x $\frac{7}{16}$ - $\frac{1}{2}$ ", thick, flat, straight, moderately stringy and fibrous, medium light green, flesh thin, good quality and flavor.

Bush: 16-18", erect and compact, dark green, foliage abundant, large, moderately rugose.

Seed: Medium large, oval, slate gray mottling. Resistant to certain strains of rust and mosaic. Adapted to Southern States. Heavy yielding home garden and shipping variety.

FORDHOOK FAVORITE 48-50 days

Pods: $4\frac{1}{2}$ -6 x $\frac{1}{2}$ - $\frac{7}{16}$ ", flat, practically stringless, moderately fibrous, light green, plump, smooth, slightly creasebacked.

Bush: 14-18", erect, medium green foliage, vigor fair, moderate in yield over fairly long season.

Seed: Medium size, oval, plump, rounded ends, ivory white.

FRENCH'S HORTICULTURAL 65-70 days

Pods: $5\frac{1}{2}$ -7 x $\frac{5}{8}$ - $\frac{3}{4}$ ", oval, straight to slightly curved, stringy, fibrous, used as shell bean, bright green splashed and streaked with carmine, beans prominent in pods. Our strain is selected for pod length and brilliance of color.

Bush: 20-26", erect, branching with short runners in later stages, bright medium green, very prolific.

Seed: Medium size, almost round, buff with scarlet or carmine splashing.

★FULLGREEN 55-60 days

Pods: 5-6 x $\frac{3}{8}$ - $\frac{7}{16}$ ", rounded to oblate, strictly stringless, little fiber, rich deep green, excellent quality, flesh extra thick.

Bush: 14-16", erect, dark green, sturdy, highly productive. Resistant to bacterial blight, common mosaic and powdery mildew. Suitable for freezing.

★FULL MEASURE 54 days

Pods: $6\frac{1}{2}$ - $6\frac{1}{2}$ x $\frac{3}{8}$ - $\frac{7}{16}$ ", semi-round to round, slightly curved, stringless, practically fiberless, dark green, fleshy, brittle, suitable for canning and freezing.

Bush: 18-19", erect, compact, coarse, medium green foliage, not as hardy or vigorous as others, but very productive under favorable conditions.

Seed: Medium sized, oval, brownish maroon splashed with buff. Tolerant of mosaic.

GIANT STRINGLESS GREEN POD 53 days

Pods: $6\frac{1}{2}$ - $6\frac{1}{2}$ x $\frac{1}{2}$ - $\frac{5}{8}$ ", round, straight to curved tip, stringless, fiberless, almost free of parchment, medium to light green, marked indentation between beans.

Bush: 16-17", similar to BURPEE'S STRINGLESS GREEN POD, but more erect plant and coarser foliage, medium green, hardy and productive.

Seed: Medium, oval, ochre brown.

HIGHLAND SULPHUR 52-55 days

Pods: 4-5 x $\frac{3}{8}$ - $\frac{7}{16}$ ", semi-round to round, straight to slightly curved, stringy, fairly free from fiber, light green, beans prominent in pod.

Vines: Similar in type to BURPEE'S STRINGLESS GREEN POD. Hardy, vigorous, prolific strain used in sections of South for early market.

Seed: Small, thick short oval, bright sulphur yellow, with faint greenish or brownish eyespot.

IDAHO REFUGEE, MOSAIC RESISTANT	63 days
Pods: $5\frac{1}{4}$ - $5\frac{1}{2}$ x $\frac{5}{16}$ - $\frac{3}{8}$ ", round, fleshy, brittle, straight, slender, stringless, fiberless, apple-green. Choice canning and freezing strain.	
Bush: 15-18", slightly larger and coarser leaflets than in REFUGEE STRINGLESS, but otherwise identical in plant type.	
Seed: Same as REFUGEE STRINGLESS, but shows smaller patches of purple splashing.	

IMPROVED COMMODORE (DWARF KENTUCKY WONDER)

<small>ALL-AMERICA® SELECTIONS</small>	Hon. Mention 1945	62-65 days
Pods: 8-9 x $\frac{3}{8}$ - $\frac{7}{16}$ ", round, slightly curved and twisted; refined round podded KENTUCKY WONDER type, almost stringless and fiberless, medium dark green, tender, brittle, very good quality.		
Bush: 16-18", erect but bushy, dark green, vigorous, coarse leaflets, very prolific.		
Seed: Large, slender kidney shape which is cylindrical in cross section, mahogany red.		

KEYSTONIAN	52 days
Pods: $6\frac{1}{2}$ - $7\frac{1}{2}$ x $\frac{1}{2}$ ", round, stringless, fiberless, rich dark green, solid.	
Vine: 18", upright, medium dark green, strong.	
Seeds: Medium size, oblong, medium brown, similar to BURPEE'S STRINGLESS. Adapted to both southern and northern areas.	

LOGAN	51 days
Pods: $5\frac{1}{2}$ - $6\frac{1}{2}$ x $\frac{3}{8}$ - $\frac{7}{16}$ ", round or pencil podded, stringless, slightly fibrous, medium dark green, very fleshy.	
Bush: 15", erect, medium green color similar to TENDERGREEN in appearance. Very prolific in South.	
Seed: Medium size, elongated oval, purplish, speckled and splashed with tan.	
Originated by Dr. B. L. Wade at Charleston, S. C. Experiment Station by crossing U. S. NO. 5 REFUGEE and STRINGLESS BLACK VALENTINE. Used extensively in the South. Sets pods under heat and drought. Resistant to powdery mildew, mosaic, and tolerant of bacterial blight.	

★LONGGREEN (TENDERLONG)	<small>ALL-AMERICA® SELECTIONS</small>	Hon. Men. 1946	56 days
Pods: $6\frac{1}{2}$ -7 x $\frac{7}{16}$ - $\frac{1}{2}$ ", round, slightly curved, stringy and slightly fibrous at all stages, dark green, fleshy, crisp, and smooth.			
Bush: 17-18", open, erect, medium dark green.			
Seed: Medium large, oval, kidney shape, dull brown purple splotched with golden to medium brown. Similar to TENDERGREEN, but longer podded.			

LOW'S CHAMPION (RED CRANBERRY)	55 days
Pods: $4\frac{3}{4}$ - $5\frac{1}{2}$ x $\frac{1}{2}$ - $\frac{5}{8}$ ", flat, straight, stringless, fibrous, good quality, medium to light green, noticeable indentations between beans. Used for canning in eastern United States.	
Bush: 14-16", erect, large leaved, dark green, vigorous and fairly productive.	
Seed: Large, plump, almost round, blood red, with cream or buff hilum.	



MAMMOTH FAVA (AQUADULCE)

MAMMOTH FAVA, AQUADULCE LONG POD (*Fava vicia*) 72-78 days

Pods: 9-16 per plant, usually 10-12, containing 5-7 seeds; 9-10½ inches long by 1-1¼ inches wide, straight, blunt, glossy ivory green at shell stage, turning to buckskin or pale buff when past table stage.

Plant: Erect, with 2-5 branches or divisions originating at base and growing to a height of 30-34 inches.

Seed: At green shell stage they are large, irregular in shape, slightly wedge shaped, thickest at eye end, $\frac{7}{8} \times \frac{3}{4} \times \frac{1}{2}$ inch, pale green or ivory color.

This is not a true bean, and its seasonal requirements are more nearly like those of peas. Generally used as a green shell bean by nationals of European origin in the U. S.

PLENTIFUL ALL-AMERICA® SELECTIONS Bronze Medal 1939 50-54 days

Pods: 7-7½ x $\frac{7}{16}$ -1½", flat to thick flat, straight to curved at tip, stringless, fairly free from fiber, medium green, popular early market and shipping variety.

Bush: 16-18", erect, medium dark green, hardy and vigorous; very prolific, shows resistance to some strains of rusts.

Seed: Large, flattened oval, glossy jet black.

RANGER ALL-AMERICA SELECTIONS Bronze Medal 1947 56 days
Pods: 4 $\frac{3}{4}$ -5 x $\frac{3}{8}$ - $\frac{9}{16}$ ", round, essentially straight, stringless, low in fiber, light green.
Bush: 18-22", some half runners, open, scattered set, and has foliage similar to REFUGEE beans.
Seed: Small, cylindrical, white. Can be used as green or commercial bean.

RED VALENTINE 50-53 days
Pods: 4 $\frac{1}{2}$ -5 x $\frac{3}{8}$ - $\frac{7}{16}$ ", curved, thick oval to round, creasebacked, stringy and fibrous, medium green, brittle, fair quality. Old home garden variety still occasionally used in South.
Bush: 12-15", fairly compact, erect, light to medium green, moderately productive.
Seed: Medium sized, oval, buff heavily splotched with red.

REFUGEE STRINGLESS GREEN POD 67 days
Pods: 5-5 $\frac{1}{2}$ x $\frac{5}{16}$ - $\frac{3}{8}$ ", round, fleshy, brittle, straight, slender, absolutely stringless, very little fiber or parchment, pale or apple green. Choice canning and freezing bean.
Bush: 15-18", erect but very spreading, dense, small leaves, dark green foliage, very vigorous, hardy and prolific.
Seed: Small, cylindrical, golden brown splashed with dark violet purple.

RIVAL (USDA No. 6) 55-60 days
Pods: 6 $\frac{1}{2}$ x $\frac{7}{16}$ - $\frac{1}{2}$ ", round to oblate, very slight curve. Smooth at prime stage but seed becomes prominent as pod matures, free from fiber or strings, medium dark green.
Bush: 15-16", erect, medium green with adequate foliage.
Seed: Medium large, long oval, purplish with light cream mottling. Very high quality and exceedingly prolific. Concentrated berrying habit. Resistant to mosaic and has ample vigor; thus is tolerant of most other diseases. Developed by Dr. W. J. Zaumeyer of U.S.D.A., Beltsville, Maryland.

STREAMLINER (WHITE SEEDED BOUNTIFUL) 48-52 days
Pods: 7-9 x $\frac{3}{8}$ - $\frac{7}{16}$ ", flat to thick flat, straight to very slightly curved, stringless, medium green, tender until full maturity. Valuable addition to early market and home garden varieties; also suitable for use as dry bean.
Bush: 14-18", erect, well branched, compact, medium green, shows some frost tolerance, hardy, vigorous, productive over long period.
Seed: Medium sized, oval, white.

STRINGLESS RED VALENTINE 52 days
Pods: 4 $\frac{1}{2}$ -5 x $\frac{3}{8}$ - $\frac{7}{16}$ ", stringless, otherwise similar to old strains of RED VALENTINE.
Bush: Similar to RED VALENTINE.
Seed: Same as RED VALENTINE.

★TENDERGREEN (NEW STRINGLESS) ALL-AMERICA® SELECTIONS Gold Medal
1933 53 days
Pods: $5\frac{1}{2}$ -6 x $\frac{1}{16}$ - $\frac{1}{2}$ ", round, curved at tip to slightly curved, stringless, fiberless, medium to dark green, fleshy, brittle, good quality, desirable for freezing.
Bush: 15-16", very erect, compact, coarse, heavy, dark green foliage, vigorous.
Seed: Large, plump, oval, dull brown purple splotched with golden to medium brown. Standard variety for market gardeners and processors.

TENNESSEE GREEN POD (BROWN BUNCH) 49-52 days
Pods: 6-7 x $\frac{5}{8}$ - $\frac{3}{4}$ ", very broad and flat, curved, stringy, fiberless, medium green, beans prominent in pods, good flavor.
Bush: 13-17", very branched and spreading, very dark green, hardy, prolific.
Seed: Medium sized, broad, flat, brown with faint eyespot.



TOPCROP

★TOPCROP ALL-AMERICA® SELECTIONS Gold Medal 1950 52-54 days
Pods: $5-5\frac{1}{2}$ x $\frac{3}{8}$ - $\frac{7}{16}$ ", round, slightly curved, smooth, slightly creaseback in later stages; flesh thick, entirely stringless and without fiber, medium dark green.
Bush: 15-16", erect, vigorous, medium light green, pods borne low.
Seed: Small, oval, brown mottled.
Immune to common bean mosaic and highly tolerant of "greasy pod." Adapted to a wide range of conditions and localities. Developed by Dr. W. J. Zaumeyer of U.S.D.A., Beltsville, Maryland.

U. S. NO. 5 REFUGEE (MOSAIC RESISTANT)	68 days
Pods: 5-5½ x 5/16-3/8", round, brittle, fleshy, straight, slender, stringless, fiberless and without parchment, medium green. Excellent for canning.	
Bush: 15-18", spreading, dark green, vigorous.	
Seed: Small, cylindrical, blue purple with light markings.	

DWARF WAX PODDED

CHEROKEE WAX	<small>ALL-AMERICA SELECTIONS</small>	Honorable Mention 1948	52 days
Pods: 6½ x 7/16", oval flat, nearly straight. Tender and stringless at all stages, slightly fibrous, golden yellow, good quality.			
Bush: Large and erect, medium green.			
Seed: Small, round, kidney, black.			
Developed by Dr. W. C. Barnes of South Carolina.			

DAVIS STRINGLESS WHITE WAX	51-54 days
Pods: 5½-6½ x 1/2-5/8", semi-flat to semi-round, straight, moderately fleshy, stringless but fibrous, fair quality, light yellow. Used as cut bean for canning.	
Bush: 14-16", erect, vigorous, bushy, moderately coarse foliage, medium green, very prolific.	
Seed: Medium size, long kidney shape, chalky white.	

FLORIDA WHITE WAX	54-56 days
Pods: 4-5½ x 5/16-7/16", slightly oval, smooth, stringless, low in fiber, almost white with pale yellow line along both sutures, good quality.	
Bush: 18", erect, bushy, vigorous, lacking in runners, light green, resistant to common bean mosaic and tolerant of heat and drought.	
Seeds: Small to medium, cylindrical with round tapered ends, shiny and dark chestnut brown.	

IMPROVED GOLDEN WAX	50-52 days
Pods: 4-4½ x 3/8-7/16", semi-flat, straight, stringless but fibrous, light yellow, fair quality. Used for home gardens.	
Bush: 13-16", erect, stocky, medium green, fairly vigorous, moderately productive.	
Seed: Medium sized, short oval, white with dark purplish-brown eyespot.	

IMPROVED KIDNEY WAX	52-55 days
Pods: 6-6½ x 7/16-1½", semi-round, slightly curved or curved at tip, stringless, fiberless when young, tender and brittle, fine texture and excellent quality, pale yellow. Used for canning.	
Bush: 14-17", erect vigorous, bushy, medium green, dense, moderately coarse foliage, productive.	
Seed: Medium small, kidney shape, snow white with large black eye.	

★KINGHORN SPECIAL 57 days

Pods: $5\frac{3}{4}$ - $6\frac{1}{4}$ x $\frac{3}{8}$ - $\frac{7}{16}$ ", semi-round to round, generally slightly curved, stringless, thick flesh, almost fiberless, cream to pale golden yellow, superior quality.

Bush: 16-18", vigorous, medium large leaves of medium green color, highly productive under favorable conditions.

Seed: Medium small, long kidney shape; clear white with no eye markings. Similar to ROUND POD KIDNEY WAX except for clear white seed. Exceptionally good for canning and freezing.

PENCIL POD BLACK WAX 54 days

Pods: $5\frac{3}{4}$ - $6\frac{1}{4}$ x $\frac{7}{16}$ - $\frac{1}{2}$ ", semi-round to round, slightly curved, stringless, fibrous, brittle, tender, very fleshy, bright golden yellow. Very desirable for canning and freezing.

Bush: 14-16", erect, spreading, vigorous, hardy and prolific, medium dark green.

Seed: Small, cylindrical, glossy jet black.

ROUND POD KIDNEY WAX (BRITTLE WAX) 52 days

Pods: 6- $6\frac{1}{2}$ x $\frac{3}{8}$ - $\frac{7}{16}$ ", semi-round to round, straight to curved at tip, fleshy, stringless, almost free of fiber, golden yellow. Excellent quality for cut wax beans and whole pack and freezing.

Bush: 15-17", erect, spreading, vigorous, hardy, coarse, medium green foliage, very prolific under good conditions.

Seed: Medium small, kidney shape, white with black eye.

SURE CROP WAX (BOUNTIFUL WAX) 52-55 days

Pods: 5-6 x $\frac{7}{16}$ - $\frac{1}{2}$ ", thick-flat, straight to slightly curved, stringless, very little fiber, bright buttery yellow. Most popular of wax podded for early market or home garden.

Bush: Similar to BOUNTIFUL.

Seed: Medium large, oval, jet black.

TOP NOTCH GOLDEN WAX 50 days

Pods: $4\frac{1}{2}$ -5 x $\frac{1}{2}$ - $\frac{5}{8}$ ", flat to semi-round, tender, fleshy, straight to curved at tip, stringless though some fiber, pale yellow.

Bush: 14-16", stocky, erect, compact, medium green, vigorous and prolific.

Seed: Medium size, kidney shape, white with medium to chocolate brown eye. Excellent home and market garden variety.

UNRIVALLED WAX 52 days

Pods: 5- $5\frac{1}{2}$ x $\frac{7}{16}$ - $\frac{1}{2}$ ", semi-round, straight, tender, stringless, fiberless when young, attractive pale yellow.

Bush: 12-14", stocky, vigorous, dark green, productive.

Seed: Small, oval, glossy yellowish brown.

FIELD BEANS

GREAT NORTHERN (MONTANA WHITE) 90 days

Pods: 5 x $\frac{3}{8}$ - $\frac{1}{2}$ ", oval, tough, fibrous, stringy, unpalatable.

Bush: 36", branching and spreading with partial vining, dark green, prolific, hardy.

Seed: Medium large, long flattened oval, white.

IMPROVED YELLOW EYE (BOSTON YELLOW EYE) . . . 100 days
Pods: $5\frac{1}{2}$ -6 x $\frac{5}{16}$ - $\frac{3}{8}$ ", thick-flat, stringy, fibrous, unpalatable. Used for baking bean in New England and New York.
Bush: 15-20", erect, branched, large leaved, compact, medium green, productive.
Seed: Medium large, thick oval, white with brownish orange-yellow eye-spot.

KIDNEY, DARK RED 95-100 days
Pods: $5\frac{1}{2}$ x $\frac{1}{2}$ ", flat, broad, straight, stringy, fibrous, unpalatable, medium green.
Bush: 20-22", erect, bushy, prolific.
Seed: Large, kidney shape, deep mahogany red, 5-6 in a pod.

KIDNEY, LIGHT RED 95-100 days
Very similar to DARK RED KIDNEY except for seed color, which is light red.

LARGE WHITE MARROW (MOUNTAIN) 100 days
Pods: 5 - $5\frac{1}{2}$ x $\frac{7}{16}$ - $\frac{1}{2}$ ", thick-flat, fibrous and stringy, unpalatable.
Bush: 30", vigorous, semi-vining, dark green, productive, hardy.
Seed: Medium large, short oval, white.

MICHELITE (IMPROVED NAVY) 95 days
Pods: 4 x $\frac{3}{8}$ ", flat, stringy and unpalatable, very dark green.
Vine: 3-4', rugose, dark green, very vigorous. Ripens uniformly.
Seed: Small, round oval, white. It is replacing the old NAVY type bean.

NAVY (BOSTON PEA, MICHIGAN NAVY, WHITE NAVY) . . . 93 days
Pods: 3 - $3\frac{1}{2}$ x $\frac{5}{16}$ - $\frac{3}{8}$ ", thick, flat, tough, stringy, unpalatable.
Bush: 30", with strong tendency to vining, dark green, hardy, vigorous, very prolific.
Seed: Small, rounded oval, white.

PINTO 85-90 days
Pods: $4\frac{1}{2}$ -5 x $\frac{1}{2}$ - $\frac{5}{8}$ ", long, quite broad, moderately curved, constricted, tough, stringy and fibrous. Light green, cream colored with irregular purple stripes in later stages.
Bush: 40", medium in size, vine semi-trailing, dark green.
Seed: Short, rather broad, oval, pinkish buff, blotched with medium dark brown.

ROBUST 90 days
Pods: 3-4 x $\frac{7}{16}$ - $\frac{5}{16}$ ", oval, slightly curved, short narrow, stringy, fibrous and tough, light greenish white.
Bush: Similar to NAVY BEAN.
Seed: Short, plump, dull white with gray vein like markings.

WHITE KIDNEY (ROYAL DWARF KIDNEY) 100 days
Pods: $5\frac{1}{2}$ -6 x $\frac{7}{16}$ - $\frac{9}{16}$ ", thick, flat, stringy, fibrous, unpalatable.
Bush: 16-22", erect, branched, heavy stemmed, productive.
Seed: Large, long kidney shape, white.

GREEN PODDED POLE

ALABAMA No. 1 GREEN POD 65-70 days
Pods: 6-6½ x ¾-7/16", rounded oval, creaseback, moderately fleshy, stringy except at very young stage, slightly fibrous, soft dark green, good quality and flavor.
Vines: 5½-6', abundant dark green foliage stained purplish bronze at nodes.
Seeds: Comparatively small, long oval, glossy black.
Popular in southern states as a cornfield bean.

ALABAMA No. 1 PURPLE POD

Similar to ALABAMA NO. 1 GREEN POD except that its pods are stained dull purple along sutures and part of surface.

ALABAMA CREASEBACK 65-70 days
Pods: 5¾-6 x ¾-7/16", round oval, creaseback, medium green, moderately fibrous and stringy.
Vines: 5-7', dark green, slightly rugose; abundant foliage and highly productive.
Seeds: Moderately small, long oval, glossy black.
Similar to BLACK CORNFIELD but more vigorous and productive; and several days later.

BLACK CORNFIELD (IDEAL MARKET, BLACK CREASEBACK, BLACK VALENTINE POLE) 58-61 days
Pods: 5-5½ x ¾-1½", thick oval to round, straight to slightly curved, stringless and fiberless when young, light silvery green, fleshy, tender, brittle, excellent quality.
Vines: 3½-4', good climber, medium green foliage, productive, hardy.
Seed: Small, oval, shiny jet black.

BLUE LAKE STRINGLESS, BLACK SEEDED (STRINGLESS BLACK CREASEBACK, STRINGLESS IDEAL MARKET) 60 days
Identical with BLUE LAKE STRINGLESS, WHITE SEEDED, except that the seed is black.

★BLUE LAKE STRINGLESS, WHITE SEEDED (WHITE CREASEBACK STRINGLESS) 60 days
Pods: 6¼ x ¾", round, straight, stringless and fiberless at all stages, dark green, smooth, tender, fleshy, excellent freezing and canning quality.
Vines: 4-5', vigorous, productive, good climber, bears over a long season.
Seeds: Small, oval, white.
Adapted to West Coast. Resistant to common mosaic and some rust strains.

CUTSHORT (RED SPECKLED CUTSHORT, CORN HILL) 72-75 days
Pods: 3-4 x 5/16-7/16", thick oval to round, slightly curved, fleshy, brittle, almost free of stringiness, slightly fibrous, medium to dark green, fair to good quality.
Vines: 4-5', loose twining, vigorous, medium to dark green, productive over long season.
Seed: Small, variable shape because of being compressed in pods, dingy gray with reddish brown eyespot and splashing.

DUTCH CASEKNIFE

64-67 days

Pods: $7\frac{1}{2}$ -9 x $\frac{3}{4}$ - $\frac{7}{8}$ ", flat, broad, straight to slightly curved, stringy, fibrous, tough, light green, poor to fair quality.

Vines: 4-4 $\frac{1}{2}$ ', good climber, rank grower, medium to light green, fairly productive.

Seed: Very large, flattened broad oval, ivory white.

GENUINE CORNFIELD (SCOTIA, NANCY DAVIS, STRIPED CREASE-BACK)

70-73 days

Pods: 5-6 x $\frac{3}{8}$ - $\frac{7}{16}$ ", round, straight to slightly curved, stringless while young, moderately fibrous, fleshy, medium green becoming purple splashed Popular pole bean in the South.

Vines: 4 $\frac{1}{2}$ -5', good climber, hardy and vigorous, medium green, prolific.

Seed: Medium small, oval, greenish buff splashed with cinnamon.

KENTUCKY WONDER (OLD HOMESTEAD, TEXAS PROLIFIC)

65 days

Pods: $7\frac{1}{2}$ -9 x $\frac{7}{16}$ - $\frac{1}{2}$ ", almost round, slightly curved and twisted, rough corrugated surface, brittle and tender, slightly stringy but fiberless, medium green; pods borne in clusters.

Vines: 5-6 $\frac{1}{2}$ ', good climber, vigorous, hardy, prolific, large leaved, dark green; widely adapted.

Seed: Medium small, very flat, oval, variable shades of gray brown to chocolate brown.

KENTUCKY WONDER, RUST RESISTANT No. 8

58-60 days

Pods: $7\frac{1}{2}$ - $8\frac{1}{2}$ x $\frac{3}{8}$ - $\frac{7}{16}$ ", straight to slightly undulant and curved, rounded oval, smoother than KENTUCKY WONDER or OLD HOMESTEAD, stringless, very little fiber, medium green.

Vines: 4 $\frac{1}{2}$ -5', fairly vigorous, good climber, productive, resistant to several strains of rust, dark green.

Seed: Medium small, flat oval, grayish brown.

KENTUCKY WONDER 191, WHITE SEEDED (BURGER'S STRING-LESS GREEN POD)

63-66 days

Pods: 6-7 x $\frac{7}{16}$ - $\frac{9}{16}$ ", thick oval to round, curved, stringless and fiberless, very brittle and tender, fleshy, dull silvery green, excellent quality.

Vines: 4-5', good climber but only moderately vigorous, medium green, fairly productive.

Seed: Medium large, long flat oval, white.

KING HORTICULTURAL (MAMMOTH, HAMPDEN, WORCESTER SPECIAL)

80-85 days

Pods: $5\frac{1}{2}$ - $6\frac{1}{2}$ x $\frac{5}{8}$ - $\frac{3}{4}$ ", thick oval, slightly curved, stringy, fibrous, tough, unpalatable except when very young, medium green with scarlet splashings.

Vines: 5-7', fairly good climber, not too vigorous or productive but hardy, medium green.

Seed: Very large, very broad, thick oval, color like LONDON HORTICULTURAL.

LAZY WIFE (WHITE CRANBERRY, WHITE CHERRY) 74-78 days

Pods: 5-6 x $\frac{5}{8}$ - $\frac{3}{4}$ ", broad, flat, beans very prominent, straight, rarely curved, stringless, almost fiberless, fleshy, brittle, fine textured, dark to medium glossy green, good quality.

Excellent home garden snap or shell bean; also used as dry bean.

Vines: 4 $\frac{1}{2}$ - $\frac{1}{2}$ ', poor climber at start but rank grower later, productive over long period, medium glossy green.

Seed: Small, almost globular, ivory white.

LOGAN GIANT 63-67 days

Pods: 5-6 x $\frac{7}{16}$ - $\frac{1}{2}$ ", thick oval to round, curved at tip to slightly curved, stringless when young, almost free of fiber, good quality, bright medium green.

Vines: 5-6', good climber, medium dark green, very productive, vigorous.

Seed: Medium large, broad oval, mottled gray and light purple.

LONDON HORTICULTURAL (SPECKLED CRANBERRY, WREN'S EGG, SCIPIO) 69-73 days

Pods: 6-7 x $\frac{5}{8}$ - $\frac{3}{4}$ ", flat oval, straight to slightly curved, stringless, almost fiberless, not fleshy, dark green in snap stage becoming yellow green splashed with bright carmine in shell stage, fair quality.

Vines: 4-4 $\frac{1}{2}$ ', good climber, vigorous, dark green, prolific.

Seed: Large, broad very plump oval, light buff sparsely splashed with dark red.

McCASLAN 61-65 days

Pods: 7-8 x $\frac{1}{2}$ - $\frac{9}{16}$ ", broad, flat, irregularly curved, stringless when young, very little fiber, fairly brittle and tender, fair quality, dark green.

Vines: Very similar to KENTUCKY WONDER, WHITE SEEDED but slightly earlier and more productive.

Seed: Medium size, oblong, ivory white.

MISSOURI WONDER (NOXALL, NANCY D.) 63-67 days

Pods: 5 $\frac{1}{2}$ -6 x $\frac{7}{16}$ - $\frac{1}{2}$ ", thick oval to round, curved, stringy, fibrous, tough, poor quality, medium green, lighter colored than KENTUCKY WONDER.

Vines: 5-6', good climber, dark green, productive, vigorous.

Seed: Large, fairly plump oval, soft gray splashed with drab.

OREGON GIANT 69-72 days

Pods: 8 $\frac{1}{2}$ -9 $\frac{1}{2}$ x $\frac{5}{8}$ - $\frac{3}{4}$ ", broad, flat, curved, stringless when young, moderately fibrous, fairly tender and fleshy, light waxy green, fair quality.

Vines: 5-6', good climber, fairly prolific, dark green, vigorous.

Seed: Large, broad kidney shape, pinkish tan with lateral black stripes.

SCARLET RUNNER (*Ph. multiflorus*) 88-93 days

Pods: 5-6 x $\frac{1}{2}$ - $\frac{5}{8}$ ", broad, thick flat, beans very prominent, straight to very slightly curved, stringless while very young becoming stringy, fibrous and tough in shell bean stage, medium to dark green.

Vines: 12-17', excellent climber, coarse medium dark green foliage, vigorous, hardy, very prolific over long season. Used for ornament.

Seed: Very large, very thick broad oval, reddish purple splashed with blue black.

STRIPED HALF RUNNER.

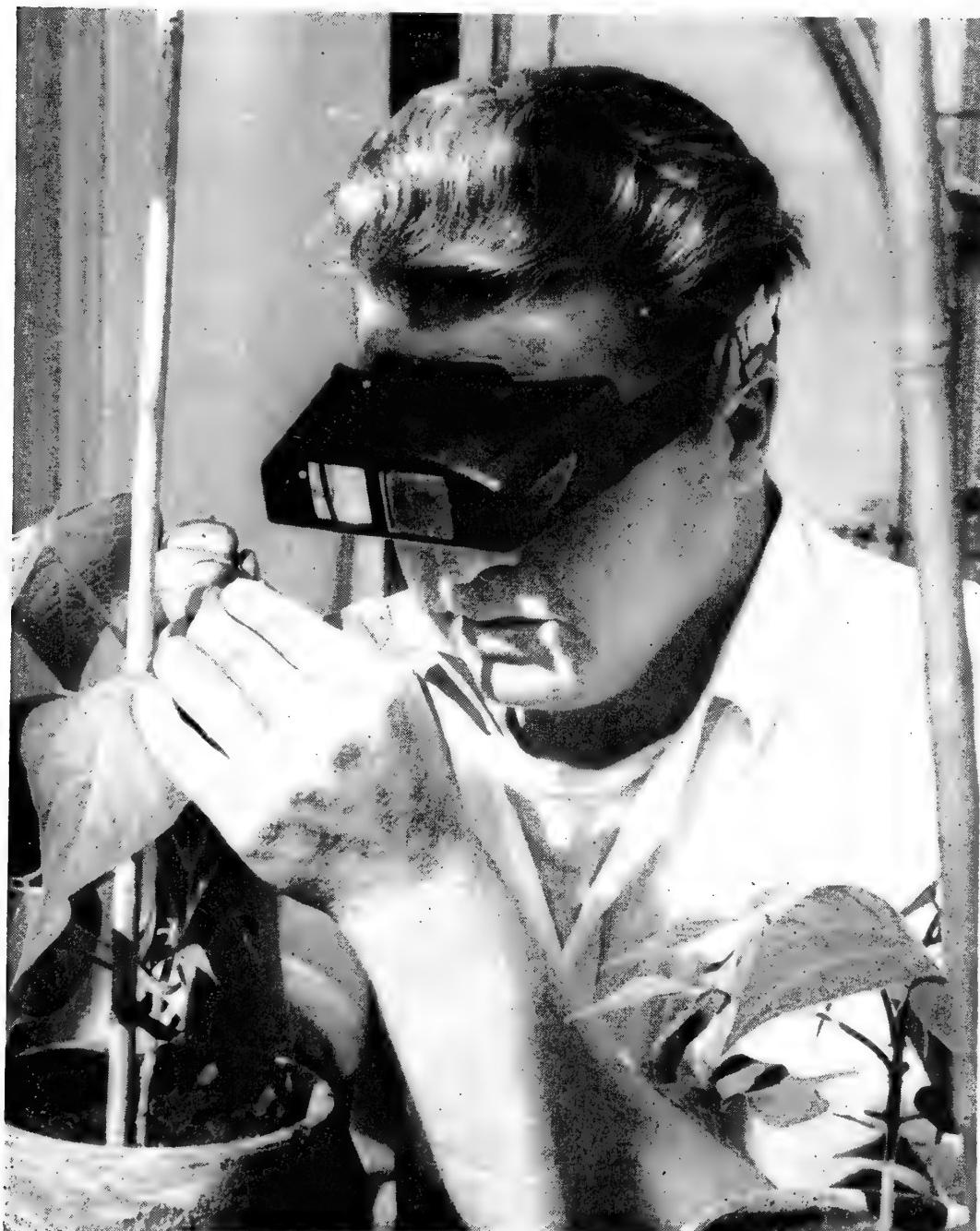
Pods: 4-5" long, round, tender with strings.

Vines: 3½', heavy, prolific.

TENNESSEE WONDER (BROWN SICKLE, EGG HARBOR, STRIPED SICKLE)

65-68 days

Pods: 7-9 x $\frac{9}{16}$ - $\frac{5}{8}$ ", round, straight to partially sickle shaped, beans prominent, almost stringless, fiberless, light green, tender, brittle, coarse textured, fair to good quality.



ABOVE, ONE OF OUR PLANT BREEDERS IS PERFORMING THE DELICATE OPERATION OF CROSS-POLLINATING A BEAN FLOWER.

Vines: 4-4½', good climber, purple shading on entire medium green plant, only moderately productive.

Seed: Medium large, long oval, mottled mouse gray and buff with black striping and eyespot.

★WHITE CREASEBACK (BLUE LAKE, WHITE CORNFIELD, FAT HORSE) 63-66 days

Pods: 5½-6 x ¾-7/16", round, slightly curved, tender, fleshy, stringless and fiberless when young, medium green, excellent quality; used in canning and freezing.

Vines: 4-5', good climber, vigorous, productive, dark green foliage, bears over long season.

Seed: Small, oval, ivory white; also suitable for dry shell bean.

WHITE DUTCH RUNNER (*Ph. multiflorus*) 88-93 days

Pods: 4½-5 x ¾-7/16", round, straight to curved at tip, stringless while young, fairly free of fiber, medium green.

Vines: 3½-4', good slender climber, bushy growth at bottom, medium green foliage, prolific.

Seed: Large, thick, broad, oval, white.

YARD LONG (ASPARAGUS) 67-73 days

Pods: 18-24 x ¾-7/16", round, straight to long twisting slight curve, fleshy, tender, traces of stringiness, fiberless, fine textured, light green, good quality.

Vines: 5½-6½', vigorous, rank grower, dark, green, productive.

Seed: Very small, angular, oval, reddish brown with black eyespot.
Vining variety of cowpeas (*Vigna sesquipedalis*).

WAX PODDED POLE

GOLDEN CLUSTER WAX 65-70 days

Pods: 6½-7½ x 5/8-¾", straight, flat, broad across the back, creaseback, long curved point, stringy, slightly fibrous, light waxy yellow, very fleshy, fine grained, fair quality.

Vine: 4-5', large, very vigorous, climbs well, hardy, productive.

Seed: Medium large, broadly oval in outline, oval in cross section. Surface occasionally wrinkled, ivory white.

KENTUCKY WONDER WAX 60-63 days

Pods: 8-9 x ½-¾", stout, almost straight, squarish in cross section, distinctly creasebacked, with very short curved point, moderately stringy, fiberless when young, very light yellow, very brittle, moderately coarse grained, fair quality.

Vine: 5-6½', medium in size, climbs well, moderately open, very early, productive, dark green.

Seed: Medium size, oblong or reniform, very flat, dark chocolate brown with a varnished appearance.

BUSH LIMAS

BURPEE'S BUSH 76-80 days
Pods: 4½-5 x 1-1¼", very flat, curved at tip to slightly curved, dark dull green, large seeded.
Bush: 14-20", erect but semi-sprawling with occasional short runners, vigorous, heavily productive, light to medium green foliage.
Seed: Large, flat, pale green in edible stage; large, broad, oval, rather triangular, flat, dull chalky white in seed stage.

BURPEE'S IMPROVED BUSH 76 days
Pods: 4½-5½ x 1-1¼", flat, medium green, curved, large seeded.
Bush: 16-20", erect, spreading, very vigorous and productive, glossy dark green foliage.
Seed: Large, flat, pale green in edible stage; large, oval, flat, green tinted white in dry stage.

★CANGREEN ALL-AMERICA® SELECTIONS Hon. Mention 1943 . . . 65-70 days
Pods: Same shape and size as HENDERSON's but darker with bronze green color when ripe.
Bush: Practically identical with HENDERSON but yield more concentrated.
Seed: Same size but slightly thicker or plumper than HENDERSON, light green integument with flesh or cotyledons of deeper green.

★EARLY MARKET (U.S. 142) ALL-AMERICA® SELECTIONS Bronze Medal 1945
73 days
Pods: 4½-5½ x 1-1⅛", medium thick, dark green, curved with 3-4 beans per pod.
Bush: 16-18", spreading, vigorous, dark green, heavy yielder of early beans.
Seed: Large, flat, green in edible stage; broad, flat, greenish cream in dry stage.

★FORDHOOK 76 days
Pods: 4-4½ x 1-1½", thick, plump, medium green, straight.
Bush: 16-19", erect, compact, bushy, dark green, heavily productive on fertile soils, but sensitive to changes in fertility or climate.
Seed: Large, plump, rounded oval, pale green in edible stage; medium size, round to rounded oval, thick, creamy with green tint in dry stage.

★FORDHOOK 242 ALL-AMERICA® SELECTIONS Bronze Medal 1945 . . . 75 days
Pods: 3½-4 x 1-1½", slightly curved, plump, similar to FORDHOOK BUSH. Holds size on late sets.
Bush: 16-20", erect, compact, slightly spreading, highly productive under most conditions.
Seed: Slightly smaller than FORDHOOK and has appearance of being thicker than FORDHOOK.
Developed by Dr. Roy Magruder and Dr. R. E. Wester of U.S.D.A. at Beltsville, Md., as a highly productive Fordhook type for adverse conditions.

HENDERSON 67 days
Pods: $2\frac{3}{4}$ - $3\frac{1}{4}$ x $\frac{3}{4}$ - $\frac{7}{8}$ ", almost straight, flat, medium green, small seeded.
Bush: 14-18", erect, compact, bushy, glossy, dark green, fine leaved foliage, very productive.
Seed: Small, almost round, thin, light green in edible stage; small, round, thin, creamy white in dry state.

JACKSON WONDER (CALICO) 64-68 days
Pods: $2\frac{3}{4}$ - $3\frac{1}{4}$ x $\frac{3}{4}$ - $\frac{7}{8}$ ", flat to thick flat, dark green, small seeded.
Bush: 16-18", almost sprawling, glossy very dark green foliage, hardy, vigorous, productive. Especially noted for its drought and heat tolerance.
Seed: Small, thick, flat, broad oval, pale buff with streaks of darker color in edible stage; small, flat, oval to triangular, deep buff to dark tan with splashing and striping of purplish black in seed stage.

PEERLESS (U.S. 243) ALL-AMERICA SELECTIONS Bronze Medal 1948 72-80 days
Pods: $3-3\frac{1}{2}$ x $\frac{7}{8}$ ", medium curved, elliptical to oval. Pod slightly depressed between beans.
Bush: About same size as HENDERSON, medium gray green.
Seed: Uniform in size, round, thick, slightly wrinkled. Light cream with greenish tint. A small FORDHOOK type seed.
Developed by Dr. Roy Magruder and Dr. R. E. Wester of U.S.D.A.

TRIUMPH (U.S. 343) ALL-AMERICA SELECTIONS Bronze Medal 1947 70-78 days
Pods: $2\frac{1}{2}$ -3 x $\frac{7}{8}$ - $1\frac{5}{16}$ ", very thick, borne in clusters under foliage at base of plant.
Bush: 12-16", compact glossy dark green.
Seed: 3-4 to a pod. Same sieve size as HENDERSON's but thicker and better quality. Green when in edible stage; irregular in shape, thick, wrinkled and cream skin color in seed stage.
Developed by Dr. Roy Magruder and Dr. Robert E. Wester of the U.S.D.A. High yield and excellent quality.

WOODRUFF'S PROLIFIC 68 days
Pods: $5-5\frac{1}{2}$ x $1-1\frac{1}{4}$, straight, flat, medium green, medium size.
Bush: 16-20", erect, very bushy, glossy dark green, coarse leaved foliage, very prolific.
Seed: Medium size, pale green, almost round, thin in edible stage; mature beans are medium size, creamy white, thin and roundish.

WOOD'S PROLIFIC 71-76 days
Pods: $3\frac{1}{2}$ -4 x $\frac{3}{4}$ - $\frac{7}{8}$ ", quite similar to HENDERSON but larger.
Bush: Identical type with HENDERSON but more vigorous, slightly larger, and a few days later.
Seed: Same as HENDERSON but larger.

POLE LIMA

CARPINTERIA 90-95 days
Pods: 4-5 x $1-1\frac{1}{2}$ ", straight, thick flat, medium to light green, smooth, large seeded.
Vines: 7-9', vigorous climber, medium green, moderately productive.
Seed: Large, fairly plump, broad oval, green tinged white to dull white in seed stage.

CHALLENGER (DREER'S IMPROVED, POLE FORDHOOK, BURPEE'S BEST) 92-97 days

Pods: 3-4 x 1-1 $\frac{1}{4}$ ", straight, broad, plump oval, medium green, medium large seeded. Pods similar to FORDHOOK.

Vines: 9-12', good climber, vigorous, medium grayish green, very productive.

Seed: Large, thick, flat, oval, bright green in edible stage; medium large, flat to thick flat, broad oval, dull or greenish white in seed stage.

EARLY JERSEY 87-92 days

Pods: 4-4 $\frac{1}{2}$ x 1-1 $\frac{1}{4}$ ", moderately curved, flat to thick flat, medium dark green, smooth.

Vines: 6-8', good climber, vigorous and moderately productive, medium to dark green.

Seed: Medium large, broad flattened oval, green tinged white in seed stage.

FLORIDA BUTTER SPECKLED 78-80 days

Pods: 3 $\frac{1}{4}$ x $\frac{7}{8}$ ", borne in clusters, slightly curved, flat, medium green. 3 beans per pod.

Vine: 8', vigorous and prolific. Similar to SIEVA, productive over long period and high temperature.

Seed: Small, round and plump in edible stage. Small and rounded, buff splashed with maroon in dry stage.

FORD'S MAMMOTH 92-97 days

Pods: 4-4 $\frac{1}{2}$ x 1-1 $\frac{1}{8}$ ", thick flat to broad oval, straight to slightly curved with some twisting, medium light green.

Vines: 7-9', good climber, vigorous, dull medium green, late bearer and only moderately productive.

Seed: Large, plump, broad oval, pale greenish white in seed stage and brighter green in edible stage.

GIANT BUTTER SPECKLED 85-90 days

Pods: 4-4 $\frac{1}{2}$ x 1-1 $\frac{1}{8}$ ", almost straight, flat. Medium to dark green.

Vine: 10', vine more vigorous than FLORIDA BUTTER.

Seed: Large and flat in edible stage. Greenish white with maroon splashes, large oval, flat in dry stage.

GIANT PODDED 92-97 days

Pods: 5 $\frac{1}{2}$ -6 $\frac{1}{2}$ x $\frac{1}{8}$ -1 $\frac{1}{4}$ ", thick flat, moderately straight although somewhat curved and twisted, dark dull green, smooth.

Vines: 10-14', moderately vigorous and productive, medium to dark green, good climber.

Seed: Large, broad oval, flat, dull white, occasionally green tinged.

KING OF THE GARDEN 87-93 days

Pods: 6-7 x 1 $\frac{1}{8}$ -1 $\frac{1}{4}$ ", flat, curved, medium light green. Most popular pole lima; also adaptable to freezing.

Vines: 8-10', vigorous climber, dull medium green, heavily productive over moderate season.

Seed: Large, nearly semi-circular, fairly plump, pale green in edible stage; same but flat to thick flat and green tinged dull white in seed stage.

LARGE WHITE 92-97 days

Pods: $5\frac{1}{2}$ - $6\frac{1}{2}$ x $1\frac{1}{8}$ - $1\frac{1}{4}$ ", moderately curved, flat, dark dull green.

Vines: 10-14', moderately vigorous, fairly productive, medium dull green.

Seed: Large, long, broad plump oval, dull white in seed stage.

This is probably the ancestor of most of the present day limas.

LEVIATHAN 85-88 days

Pods: $4\frac{1}{2}$ - 5 x 1 - $1\frac{1}{8}$ ", straight to curved at tip, thick flat, medium light green.

Vines: 7-9', fairly vigorous, hardy, productive, dull medium green.

Seed: Large, broad, flattened oval, dull white in seed stage.

SEIBERT'S EARLY 88-93 days

Pods: $4\frac{1}{2}$ - $5\frac{1}{2}$ x $1\frac{1}{8}$ - $1\frac{3}{8}$ ", similar to EARLY JERSEY in type.

Vines: Similar to EARLY JERSEY but later season and more vigorous.

Seed: Large, broad, plump oval, green tinged chalky white in seed stage.

SIEVA (CAROLINA, SEEWEE, SMALL WHITE) 85-89 days

Pods: 3 - $3\frac{1}{2}$ x $5\frac{1}{8}$ - $3\frac{1}{4}$ ", straight to curved at tip, flat to thick flat, medium green, smooth.

Vines: 9-12', vigorous climber, early, moderately productive, very dark glossy green.

Seed: Small, flattened oval tending to triangular, dull to chalky white in seed stage.

WILLOW LEAF 88-92 days

Pods: Very similar to SIEVA.

Vines: Like SIEVA but foliage consists of narrow willowy leaflets making variety more drought and heat tolerant in the South.

Seed: Like SIEVA.

B E E T

Beta vulgaris

ASGROW WONDER ALL-AMERICAN SELECTIONS Gold Medal 1934 50-52 days

Roots: $2\frac{1}{2}$ - 3 " in diameter, short top shape, with medium tap root, dark red, fairly smooth skin; interior very dark red with occasional traces of faint zoning. Choice market type.

Tops: 12-14", with glossy medium green, medium broad leaf blade; medium collar.

CRIMSON GLOBE 60 days

Roots: Similar to LANDRETH'S BEST, but more distinct zoning and carmine instead of dark red interior. Main crop market type and canner strain.

Tops: Similar to LANDRETH'S BEST, but leaf blades are broad, long and only slightly crumpled.

CROSBY EGYPTIAN 50-52 days

Roots: Similar to EARLY WONDER, with higher percentage of roots flat globe and squarer shoulder. Lighter internal color than EARLY WONDER and more distinct zones.

Tops: Similar to EARLY WONDER, but medium collar. This variety becoming obsolete because of less desirable interior color.

DETROIT DARK RED (TALL TOP STRAIN) 55-58 days

Roots: 2½-3" in diameter, globe shaped symmetrical, slightly flattened on top, medium sized tap root, dark red, smooth skin; interior very dark red with faint indistinct zones; tender fleshed, giving excellent quality as diced or small whole beets. Also suitable for freezing while young.

Tops: 18-22", with glossy dark green, medium wide leaf blades which remain smooth; small to medium collar.

Adapted to mechanical harvesting. Widely used in East as a market garden beet because of attractive tops and smooth skin.

★DETROIT SHORT TOP 57-60 days

Roots: 2-2½" in diameter, distinctly globe shaped, with small tap root, dark red skin; corky on top, interior very dark or blackish red with faint, indistinct broken zones of dark carmine red, brittle flesh. Most desirable for whole pack or freezing.

Tops: 12-15", with glossy dark green, narrow leaf blades which are slightly crumpled; small collar. A very uniform line.

Used by southern growers as a shipping variety to avoid freight on large tops.

EARLY BLOOD TURNIP 60-65 days

Roots: 2½-3" in diameter, fairly uniform top shape, medium tap root, medium dark red smooth skin; interior medium dark red with thin distinct zoning, brittle flesh. Home garden and local market strain.

Tops: Similar to EARLY WONDER, mostly green leaved; medium to small collar.

EARLY RED CHIEF 50-52 days

Roots: 2-2½" in diameter, globular, small tap roots, dark red smooth skin, very uniform in size and shape; interior dark red and zoning inconspicuous. Choice strain for early market.

Tops: 12-16", similar to EARLY WONDER in type; small collar.

EARLY WONDER 49-52 days

Roots: 2½-3" in diameter, flat globe to short top shape with small tap root, dark red, smooth skinned; interior dark red with thin distinct zones of magenta tinged medium red, very tender and rapid growing. Suitable for diced packs in northern latitudes.

Tops: 14-16", with glossy, medium green, broad, short, triangular shape leaf blade which remains smooth; small collar. Leaves remain green in fall when frost reddens other varieties.



INSPECTING BEETS ON OUR FARM AT MILFORD.

ECLIPSE 55-60 days

Roots: 2-2½" in diameter, almost globular, with medium tap root, medium dark red, fairly smooth skin; interior bright red with indistinct pink zones Market and home garden type.

Tops: 15-17", fairly coarse, light green leaf, almost smooth blade; medium collar.

EDMAND'S BLOOD TURNIP 60-65 days

Roots: 2¾-3¼" in diameter, top or turnip shaped, medium tap root, medium dark red fairly smooth skin with medium dark red interior variably zoned with lighter red. Main crop or late home garden type for winter storage.

Tops: 15-17" large, broad leaf blades, mostly green; medium collar.

EXTRA EARLY DARK RED EGYPTIAN (FLAT EGYPTIAN) 49-51 days

Roots: 2½-3", flat to flat globe with very small tap root, very dark skin and dark red interior, occasionally faintly zoned. Earliest market type where diameter of bulb is prime consideration rather than total tonnage. Used extensively for transplanting to force for early market.

GOOD FOR ALL	<small>ALL-AMERICA SELECTIONS</small>	Bronze Medal 1934	62-65 days
Roots: 2-2½" diameter, globular, medium to small tap roots, slow grower; dark red smooth skin with dark red interior, occasionally faintly zoned. Canning strain developed as selection from DETROIT DARK RED.			
Tops: 13-16", long, narrow, slightly crumpled leaf blade; much smoother than SHORT TOP DETROIT, medium dark green; medium sized collar.			
GREEN TOP BUNCHING			58 days
Roots: 2½-3", round, smooth, refined, medium dark skin, flesh is bright blood red.			
Tops: 15-19" medium, erect, clean grayish green. A very saleable beet, with foliage that remains green in cool weather.			
★LANDRETH'S BEST			54-57 days
Roots: 2½-3", uniform globe shape with small to medium tap root, dark red, almost smooth skin; interior dark orange red with faint indistinct zones of medium red, tender flesh. Suitable for both small whole or diced pack and for freezing.			
Tops: 17-20", with glossy medium green, long, narrow, slightly crumpled leaf blades; small collar.			
LONG SMOOTH BLOOD (LONG DARK BLOOD)			75-80 days
Roots: 2-2½ x 8-10", long cylindrical with abruptly tapered tip, medium to large tap root, smooth purplish red skin and deep purplish red interior with only slight traces of zoning; growth is partially out of ground. Important as late winter storage type.			
Tops: 18-22", medium green to bronze, large broad leaf blades; medium to large collars.			
LUTZ GREEN LEAF (WINTER KEEPER)			70 days
Roots: 2¼-3" in diameter, long top shaped, large tap root, very dark purplish red, smooth skin; very dark interior with distinct incomplete pale zones.			
Tops: 14-18", large elongated, glossy green leaves, with pale pink midribs that remain free from frost discoloration. Excellent quality but only adapted to home garden.			
OHIO CANNER	<small>ALL-AMERICA SELECTIONS</small>	Silver Medal 1933	62-65 days
Roots: 1¾-2½" in diameter, deep oblate to globular at canning stage, developing from short top shape when younger; medium to large tap root; dark red, fairly smooth skin with very dark red interior, only rarely showing indistinct lighter zones. Because of slow growth this is chiefly a canning strain.			
Tops: 13-16", medium sized oval leaf blades, smoother than SHORT TOP DETROIT, glossy green, medium to medium large collar. This variety is related in parentage to PERFECTED DETROIT, but matures later.			
PERFECTED DETROIT	<small>ALL-AMERICA SELECTIONS</small>	Silver Medal 1934	53-57 days
Roots: 2¼-3" in diameter, almost globular at dicing stage developing from elongate globe at early market stage; medium to large tap roots; vigorous, rapid grower; dark blood red, fairly smooth skin with blood red interior occasionally showing faint indistinct zones. Small collar, uniform size. Used mainly as a market garden strain but also suitable for canning.			
Tops: 16-19", large, broad oval leaf blades, partially crumpled, dark glossy green; becoming tinged red in fall; mostly medium collars.			

MANGEL

MANGEL WURZEL or STOCK BEET

Beta vulgaris var. *saccarifera*

ECKENDORF, YELLOW 100 days

Good yielder; roots shaped like GOLDEN TANKARD, large, flesh is tinged with yellow, tops are small and apple green. Grown for stock feed.

GIANT HALF SUGAR, GREEN TOP 90 days

Heavy yielding variety grown for stock and poultry feed; roots are broad, oval, greenish lemon tint above ground and white beneath; flesh is white with good sugar content; tops are small with apple green foliage.

GIANT HALF SUGAR, ROSE TOP 90 days

Same as GIANT HALF SUGAR GREEN TOP, but tops and upper portion of root are rose tinted to bright rose color.

GOLDEN TANKARD 100 days

Good yielder; roots long and oval shaped, large; flesh is orange yellow; tops small and yellow green.

MAMMOTH LONG RED 110 days

Heaviest yielding and largest of mangels, roots are very large, blunt pointed, wedge shape, light to vermillion red with pink tinged flesh; tops are medium size and medium dark green with reddish tinge.

SLUDSTRUP (DANISH SLUDSTRUP, GIANT YELLOW INTERMEDIATE, BARRES SLUDSTRUP) 105 days

High feeding value because of high sugar content; roots are long, pointed, oval with yellow skin and white flesh, occasionally tinged with yellow, small tops and small tap roots with growth mostly above ground, making for easy harvest.

SUGAR BEET

Beta vulgaris var. *saccarifera*

KLEIN WANZLEBEN (ELITE) 100 days

Most desirable sugar beet; also excellent for stock feed because of high sugar content; roots 12-16" long, 4-5" in diameter at shoulder, tapered, grayish white; good keeper, heavy cropper.

LANE'S IMPERIAL (VILMORIN'S IMPROVED WHITE, WHITE FRENCH) 105 days

Good cropper with sugar content as high as 18-20%; roots large, oval, smooth, rose tinted white with white flesh.

SWISS CHARD

Beta vulgaris var. *cicla*

BROAD RIB GREEN (WHITE SILVER RIBBED) 53-58 days

Plants: 14-20" tall, erect, vigorous, compactly bunched.

Leaves: Noted for prominent broad and thick, green tinted, white midrib; leaf blade 6-8" broad, 6-8" long, bright green, slightly crumpled.

COMMON GREEN (SPINACH BEET) 55 days

Plants: 12-14" tall, sprawling, moderately vigorous.

Leaves: Smooth, medium size, glossy dark green, with slender green tinted midribs. Sometimes called Perpetual Spinach.

FORDHOOK GIANT 55-60 days

Plants: 16-24" tall, hardy, vigorous, prolific and compactly bunched.

Leaves: Lucullus type, but petioles are broader and thicker on average and are more creamy tinged white than green tinted white; leaf blades 9-10" long, glossy dark blue green, much crumpled, with rounded incurved tip similar to LONG STANDING BLOOMSDALE SPINACH.

LUCULLUS 50-55 days

Plants: 16-22" tall, hardy, vigorous, compactly bunched.

Leaves: Leaf blade 5-7" broad, 9-12" long, medium apple green, heavily crumpled, petiole is creamy yellow and slender.

BROCCOLI

Brassica oleracea var. *italica*

★CALABRESE (ITALIAN GREEN SPROUTING) 60-70 days

Heads: 2½-4" in diameter, formed of bright green compact buds, free from leaflets; sprouts developing after main head is cut are ¾-1½" in diameter and of similar type as main head. Distinctive flavor, tender; used for canning, freezing and market.

Plants: 24-30" tall, very leafy, blue green foliage, making erect, bushy plant.

★DI CICCO 55-60 days

Heads: Center heat 3 inches, good green; side heads ¾ inch and as compact as main head.

Plants: Medium tall, 2 ft., bright green and very productive. Especially desirable for quick freezing, the center head being cut early to stimulate the production of larger and more uniform side heads.

★PROPAGENO EARLY 60 days

Heads: 2" diameter, compact, good bright green, free from leaflets.

Normally does not develop marketable side shoots. Particularly valuable for early market garden to compete with southern market shippers.

Plants: 15-18" tall, moderately leafy, and moderately productive.

BROCCOLI-RAAB

Brassica napus cultivar

FALL

Winter annual making heavy compact top growth with 1" flower head early in spring for greens.

Leaves are broad strapleaf turnip type. Grows 18-24" tall before going to seed.

Used as early market greens.

SPRING

Same as FALL BROCCOLI-RAAB, but must be planted in spring, since it will not winter over. This is annual and shoots to seed rapidly. Used also as early market greens.

BRUSSELS SPROUTS

Brassica oleracea var. *gemmifera*

★LONG ISLAND IMPROVED

92-97 days

Plants 22-26" tall, compact, stem tightly packed with small heads 1½-1¾" in diameter. This is a later, more vigorous and slightly large heading strain than PARIS MARKET.

PARIS MARKET

90-95 days

Plants 20-24" tall, dwarf and compact, stem closely covered with small cabbage-like balls 1-1¼" in diameter, which mature in succession.

CABBAGE

Brassica oleracea var. *capitata*

YELLOWS RESISTANT VARIETIES

FIRST EARLY

DETROIT (RESISTANT GOLDEN ACRE)

63-66 days

Plants: A resistant type of GOLDEN ACRE, with slightly larger plant. Plant habit slightly different from GOLDEN ACRE. Coarser, more open leaves.

Heads: Very similar to GOLDEN ACRE or COPENHAGEN MARKET, with creamy white interior.

JERSEY QUEEN

65-68 days

Plants: Selected from JERSEY WAKEFIELD for disease resistance; very similar in type but dark blue green.

Heads: Pointed similar to JERSEY WAKEFIELD though smaller, more compact, and finer texture.

RACINE MARKET

68-70 days

Plants: Similar to COPENHAGEN MARKET, dependable, early and uniform.

Heads: 6½-7" round, with slight tendency to become pointed; solid, a steel gray green color to leaves. A good quality, excellent early shipper, or used as early kraut.

MARION MARKET (RESISTANT COPENHAGEN MARKET) 75-78 days

Plants: Medium size, with larger leaves and more spreading plant habit than COPENHAGEN MARKET, deeper blue green than COPENHAGEN MARKET.

Heads: Globe, 6½-7½" in diameter, weigh 4-5 lbs., hard; fine grained, creamy white interior, tender and crisp fleshed, medium core. Usually not as uniform as good strains of COPENHAGEN MARKET.

SECOND EARLY

ALL HEAD SELECT 77-80 days

Plants: Similar to ALL HEAD EARLY, though a little darker color.

Heads: Flattened globe 9-10" broad, weigh 7-7½ lbs.

GLOBE 79-83 days

Plants: Large, spreading, vigorous, medium green, moderate bloom. This is yellows resistant selection of GLORY.

Heads: Large, flattened globe, 8-9" diameter, weigh 5½-6 lbs., hard; interior creamy white with medium grain and medium sized core. It is used extensively for fall planted kraut.

WISCONSIN ALL SEASONS 92-95 days

Plants: Yellows resistant selection from ALL SEASONS; similar to ALL SEASONS, but not as uniform.

Heads: Similar to ALL SEASONS, but with coarser textured interior. Very valuable as a substitute for regular ALL SEASONS in an infested location. Used chiefly for kraut and winter storage.

LATE OR MAIN SEASON

WISCONSIN BALLHEAD 95-100 days

Plants: Similar to DANISH BALL HEAD type. More uniform than WISCONSIN HOLLANDER NO. 8, but of a similar type.

Heads: Globular to flattened globe 7-8", similar to WISCONSIN HOLLANDER, but smaller, more uniform and harder. Good quality.

WISCONSIN BALLHEAD IMPROVED 100-105 days

Plants: Slightly taller and not as broad as DANISH BALLHEAD, with similar type leaf.

Heads: 6-7", more nearly spherical with more head weight and less leaf weight than DANISH and WISCONSIN BALLHEADS. Tends to outyield them and stands better without bursting after maturity. Has narrower and shorter core.

RED HOLLANDER 100-105 days

Similar to WISCONSIN HOLLANDER except for color. Yellows resistant and excellent for main crop. Globular heads 6" diameter are used for shipping and storage.

BUGNER (HOUSER) 105-110 days

Plants: Very large, with large upright leaves, color deep blue green which becomes red tinged in late fall, heavy bloom.

Heads: Large, $7\frac{1}{2}$ - $8\frac{1}{2}$ ", globe to slightly flattened globe, weigh $7\frac{1}{2}$ -9 lbs., compact, hard, with interior creamy white to pale yellow, coarser grained than DANISH BALLHEAD, with medium core.

WISCONSIN HOLLANDER NO. 8 108-112 days

Plants: Medium to large, upright leaves, blue green, moderately heavy bloom. Yellows resistant selection from DANISH BALLHEAD.

Heads: Globular to flattened globe, $7\frac{1}{2}$ - $8\frac{1}{2}$ " diameter, weigh 6-8 lbs., similar to DANISH BALLHEAD, but not as uniform size as best strains of DANISH BALLHEAD.

STANDARD VARIETIES**FIRST EARLY****JERSEY WAKEFIELD** 60-62 days

Plants: Small, medium broad, upright leaves, compact, medium blue green, short stem. Extra early market or home garden type.

Heads: $4\frac{1}{2}$ - $5\frac{1}{2}$ " broad at base, $6\frac{1}{2}$ -7" deep, weigh 2- $2\frac{1}{2}$ lbs., pyriform, more pointed than CHARLESTON WAKEFIELD; interior greenish white, fairly solid, medium textured, small core.

GOLDEN ACRE ELITE 60-63 days

Plants: Very uniform, closely selected strain of GOLDEN ACRE with short stem, uniform type and maturity.

Heads: $6-6\frac{1}{2}$ " in diameter, weigh $3-3\frac{1}{4}$ lbs., very uniform, golden green, globular.

GOLDEN ACRE 63-66 days

Plants: Similar to COPENHAGEN MARKET, being an extra early selection from that variety.

Heads: $6-6\frac{1}{2}$ " in diameter, weigh $2\frac{1}{2}$ -3 lbs., otherwise same as COPENHAGEN MARKET.

EXTRA EARLY COPENHAGEN MARKET 63-66 days

Plants: Similar to COPENHAGEN MARKET.

Heads: $6-6\frac{1}{2}$ ", weigh $2\frac{1}{2}$ -3 lbs., interior white, tender, tightly packed, small medium core, not susceptible to premature bursting.

Adapted to South particularly, does well anywhere. This is an exceptional variety of very fine quality. This line has been carefully selected for uniformly early maturity.

COPENHAGEN MARKET 65-70 days

Plants: Medium sized, saucer shaped, short, upright leaves standing away from head, medium grayed green, short stem, rapid early grower; characterized by prominence of heads in field when seen from distance.

Heads: 6-7" in diameter, weigh $3-3\frac{1}{2}$ lbs., interior white, fine grained, tender, tightly packed, not susceptible to premature bursting; small medium core.

GREEN ACRE 68-70 days

Plants: Same as GOLDEN ACRE, but darker green and larger leaved so that heads are not as noticeable in the field.

Heads: Same as GOLDEN ACRE, but darker green exterior and greenish white interior. Holds color better for shipping and market.

CHARLESTON WAKEFIELD 71-75 days

Plants: Large, long, semi-erect outer leaves, dark green, medium stem.

Heads: 6-7" broad at base, 7-8½" deep, weigh 4-5 lbs. pyriform with rounded point; interior greenish white, medium textured, fairly firm, small to medium core. Used for Southern winter shipping; good for home garden and local markets as well.

RED ACRE 75-78 days

Plants: Type of GOLDEN ACRE but more leafy and medium red with moderate bloom.

Heads: Same as GOLDEN ACRE, but red.



GOLDEN ACRE

SECOND EARLY

MIDSEASON MARKET 73-78 days
Plants: Upright, fast growing, stout, short stem, thick smooth leaves, medium light blueish green, seemingly covered with silvery grayish bloom.

Heads: Large, hard, round, 6-8", weigh 3-4 lbs., excellent quality. Very similar to GLORY OF ENKHUIZEN.

EARLY DWARF FLAT DUTCH 74-79 days
Plants: Small, leaves semi-erect and compact, medium dark green, short stem, suitable for close planting.
Heads: 7-8" broad, 5-6" deep, weigh 3½-4½ lbs., interior white, solid, fine textured, small core, desirable second early market type.

FERRY'S ROUND DUTCH 75-80 days
Plants: Small, compact, short stem.
Heads: Round, slightly flattened at base, 7-8", weigh 4½-5 lbs., green.
Out of EARLY DWARF FLAT DUTCH. Slow to produce seeders.

EARLY SUMMER 75-80 days
Plants: Medium size, large, broad, semi-erect leaves, medium stem, medium green. Local market and home garden type.
Heads: Round with flattened top, 7-8" broad, 6-6½" deep, weigh 5-6 lbs., interior white, medium textured, fairly solid, small to medium core.

ALL HEAD EARLY 77-80 days
Plants: Large, long, upright leaves, medium green, short to medium stem, rapid grower.
Heads: Flat globe shape with rounded tops, 8-9" broad, weigh 6-7 lbs., interior creamy white, medium textured, hardy, medium core, good keeper for storage.

GLORY OF ENKHUIZEN 78-82 days
Plants: Large spreading leaves slightly curved upward, color medium blue tinged green with moderate bloom.
Heads: Large, globe, 6½-8" in diameter, weigh 5-6 lbs., hard; interior creamy white, medium grained, medium core. Desirable variety of early midseason maturity.

CHIEFTAIN SAVOY ALL-AMERICA SELECTIONS Silver Medal 1938 . 85-88 days
Plants: Medium large, broad, semi-erect leaves, compact, pale blue green, uniformly finely savoyed, short stemmed.
Heads: 9-10" broad, 6-7" deep, weigh 6-7 lbs., flattened oblate, firm, well folded to give solid, fine to medium textured interior which is pale green; medium sized core.

DRUMHEAD SAVOY 90-95 days
Plants: Large, broad, semi-erect leaves, dark green, coarsely savoyed, medium stem.
Heads: 8" broad, 6½-7" deep, weigh 5-6 lbs., almost round; interior yellow to greenish yellow, medium textured, fairly firm, medium core.

STEIN'S EARLY FLAT DUTCH 90-95 days

Plants: Medium sized, broad, semi-erect, compact leaves, medium gray green, short to medium stem, vigorous. Very satisfactory market and shipping type.

Heads: 10-11" broad, 6-6½" deep, weigh 9-10 lbs., flat globe shape, solid; interior creamy white, medium textured, medium core.

ALL SEASONS 92-95 days

Plants: Large, vigorous, hardy, medium green, medium length stem, drought tolerant.

Heads: Oblate shaped with rounded top and bottom, 10-11" broad, 7-8" deep, weigh 9-10 lbs., interior creamy white, very solid, fine to medium textured, small to medium core. Good storage and kraut cabbage.

SUCCESSION 92-95 days

Plants: Medium sized, broad, semi-erect leaves, medium blue green, medium stem. Good late summer and fall strain; good keeper.

Heads: Globular to flattened globe, 10-11" broad, 7-8" deep, weigh 8-9 lbs., solid, medium textured; interior white, good quality, medium core.

LATE OR MAIN SEASON**SPECIAL LONG ISLAND SAVOY** 95-100 days

Plants: Our own strain of late Savoy type. Large, leaves broad spreading, dark green, medium savoyed over entire surface, short to medium stem.

Heads: 8-10" broad, 7-8" deep, weigh 6-7 lbs., flat globe shape with slightly rounded tops; interior yellow to greenish yellow, very solid, fine textured, small to medium core. Very resistant to late frosts and an excellent market garden variety if consumer will accept a savoy cabbage.

SPECIAL RED ROCK 98-103 days

Plants: Selected from MAMMOTH RED ROCK for vigor and uniformity, short stem.

Heads: 7-8" broad, 7-8" deep, weigh 7-8½ lbs., globular to slightly ovate, deep blood red carried through head, medium textured, solid, small to medium core.

MAMMOTH RED ROCK 100-105 days

Plants: Large, broad, semi-spreading leaves, deep blood red or purplish red, globular to flat globe, medium stem, heavy producer.

Heads: 7-8" broad, 6½-7" deep, weigh 6-7 lbs., interior red, fairly solid, coarse textured, medium core, good keeper.

PREMIUM LATE FLAT DUTCH (LATE DRUMHEAD) . . 100-110 days

Plants: Large, broad, spreading leaves, medium blue green, medium stem. Heavy yielding market and kraut type.

Heads: 11-14" broad, 6½-7½" deep, weigh 12-15 lbs., distinctly flat; interior creamy white, very solid, medium textured, small to medium core.



PENN STATE BALLHEAD

PENN STATE BALLHEAD ALL-AMERICA SELECTIONS Silver Medal 1934
103-107 days

Plants: Medium size, medium large leaves, upright, blue green with moderate bloom.

Heads: Flattened globe, 7-8" in diameter, 6-7" deep, weigh 5-6 lbs., very hard, creamy white interior, fine grained, small to medium core, very uniform strain.

FERRY'S HOLLANDER 105 days

Plants: Medium small, allowing close planting, short stemmed, erect and compact, very hardy.

Heads: Spherical, 6½-7" in diameter, and weighs 6-7 lbs., very firm, keep perfectly in storage till late spring.

DANISH BALL HEAD (HOLLANDER) 105-110 days

Plants: Medium to large size, short stem, upright leaves, color blue green with heavy silvery gray bloom.

Heads: Globe to flattened globe, very hard, 7½-8½" in diameter, weigh 6-6½ lbs., interior white, fine grained, tightly packed, with small to medium core. Leading late variety for processing.

CABBAGE, CHINESE

Brassica pekinensis

CHIHLI (PEKIN IMPROVED) 70-75 days

Heads: $3\frac{1}{2}$ -4 x 16-20", long cylindrical, pointed at tip, very solid and crisp, pale yellow to creamy white interior with outer leaves medium yellow green to apple green; erect growth. Probably best of varieties grown in this country.

MICHIHLI 70-75 days

Plants: Exceptionally sure heading, vigorous, similar to CHIHLI.

Heads: 4 x 18-20", long cylindrical, firm, crisp, dark green outer leaves without a yellowish cast, fine flavor.

WONG BOK (PAO-TING) 75-80 days

Heads: 5-7 x 8-10", long oval, fairly firm, creamy white to pale yellow interior, with dark blue green outer leaves; plant semi-erect with tips of outer leaves curling outwards.

CANTALOUE AND MUSKMELON

Cucumis melo

PINK OR ORANGE FLESHED VARIETIES

BANANA 95-100 days

Fruits: $3\frac{1}{2}$ -5 x 10-20", weigh $4\frac{1}{2}$ -6 lbs., banana shaped, long, tapered slightly at both ends, skin is smooth, yellow when ripe with fairly thick pink flesh, well flavored. Used as late maturing variety in the South where it is not susceptible to sun scald.

BENDER'S SURPRISE 90-94 days

Fruits: 5-6 x 7-9", weigh 6-8 lbs., thick oval shape, distinctly ribbed, coarsely netted, skin dark green becoming light yellow at maturity, flesh bright salmon pink, thick, firm. Popular local shipping melon in the Northeast. Has thicker flesh than TIP TOP.

BURRELL'S GEM (DEFENDER, ORDWAY PINK MEAT) . . . 90-95 days

Fruits: $4-4\frac{1}{2}$ x $6-6\frac{1}{2}$ ", weigh $2\frac{1}{2}$ -3 lbs., oval to oblong shape, distinctly ribbed, with medium netting, skin dark green remaining green at maturity, flesh rich orange, thick, sweet and spicy. Hardy variety in dry weather, but frequently develops blossom cracks in wet weather.

CRENSHAW 95-100 days

Fruits: Large, 6 x 7", acorn shape, tapered at stem end. Skin smooth but surface slightly roughened (ridged) and yellow when ripe; flesh is thick, buff pink, excellent quality. Preferred for local use on the Pacific Coast.

DELICIOUS (EARLY BENDER)	83-87 days
Fruits: Similar to BENDER'S SURPRISE but earlier and smaller fruited on average; flavor and quality is better than BENDER'S SURPRISE: 5-6 x 6-7", weigh 5-6½ lbs., skin creamy green at maturity. An outstanding variety apparently well adapted to North East, not a shipping type.	
EMERALD GEM	80-85 days
Fruits: 5-6 x 4-5", weigh 2½-3 lbs., flattened globe shape, distinctly ribbed with trace of netting, skin is bright emerald green becoming yellow green at maturity; flesh very thick, intense salmon orange, excellent quality. Suitable only for home garden and local market.	
HALE'S BEST NO. 36	82-86 days
Fruits: 5-5½ x 6-6½", weigh 3-4 lbs., thick, rounded oval, inconspicuously ribbed with heavy interlaced netting; skin yellow green with flesh salmon-orange, very thick and solid, good quality. One of the most widely used varieties for long distance shipping, local market or home garden.	
HALE'S BEST NO. 936	88 days
Fruits: Uniform, nearly round, heavy netting which makes it a good shipper. Flesh is firm, sweet, and salmon in color. Developed from HALE'S BEST NO. 36 for larger fruit size.	
HALE'S BEST, JUMBO STRAIN (TRIUMPH)	84-88 days
Fruits: 6-7 x 7-8", weigh 5-6 lbs., similar to HALE'S BEST NO. 36 but larger and slightly later strain.	
HEARTS OF GOLD (HOODOO)	90-95 days
Fruits: 5½-6" in diameter, weigh 3-3½ lbs., globular, distinctly ribbed, with abundant fine gray netting, skin dark green, flesh very thick, deep salmon-orange, firm, sweet, juicy. Used for local markets and short distance shipping.	
HEARTS OF GOLD, MORRILL'S LARGE STRAIN	93-97 days
Fruits: 6½-7" in diameter, weigh 4-5½ lbs., very similar to regular type of HEARTS OF GOLD, but larger, slightly later and better shipper.	
IMPERIAL NO. 5	95 days
Fruits: 5½ x 6½". Salmon colored, smooth texture, excellent flavor, with high sugar content. Slightly ribbed. It is mildew resistant and adapted to Imperial Valley and Phoenix sections and where mildew susceptible strains are a problem.	
IROQUOIS (CORNELL NO. 36)	88 days
Fruits: 7 x 6", light grayish green skin, prominent ribbed with fairly heavy netting. Flesh is thick with deep orange color and sweet, tough rind. This was developed by Henry Munger at Cornell University and is a Fusarium wilt resistant BENDER type melon.	



IROQUOIS

LAKE CHAMPLAIN (GOLDEN CHAMPLAIN) 80-85 days

Fruits: 5-6" in diameter, weigh 3-3½ lbs., globular to slightly flattened, shallow ribbing with moderate netting, skin pale green, flesh salmon-orange, medium thick, fairly sweet, juicy, well flavored. One of earliest orange fleshed varieties, suitable for home garden or local market.

MILWAUKEE MARKET 85-90 days

Fruits: 6-7 x 7-8", weigh 4½-6 lbs., oval, prominent ribbing with moderately abundant coarse netting; skin bright gray green; flesh deep salmon, solid, thick, medium textured, good flavor. Early shipping type for Northern areas.

ORANGE FLESH (PERFECTO) ALL-AMERICA SELECTIONS Silver Medal 1933 85-90 days

Fruits: 5-5½ x 6-6½", weigh 2½-3 lbs., thick oval to globular, no ribbing and abundant, fine-laced netting; skin dark green, flesh salmon-orange, medium thick, highly flavored, firm, juicy, good quality. Popular all-purpose melon well adapted to shipping.

OSAGE (MILLER'S CREAM, EXTRA EARLY OSAGE) . . . 90-95 days

Fruits: 6-6½ x 7-8", weigh 5-6 lbs., rounded oval shape, slightly ribbed with sparse, patchy, coarse netting; skin dark green; flesh orange, thick, distinct sweet spicy flavor, fairly good quality. Home garden and local market type.

POWDERY MILDEW RESISTANT D-2 90 days

Fruits: 5½-6 x 6½-7", weigh 4-5 lbs., solid, heavily netted; skin yellow green; flesh salmon colored, fine quality, thick, sweet. It is a fine early large, resistant, heavy netted melon that stands shipping well.

POWDERY MILDEW RESISTANT NO. 5 (IMPERIAL NO. 5) 90-95 days

Fruits: Slightly ribbed, inconspicuously netted, good flavored, salmon colored flesh. Pick early slip for distant shipping. Promising shipping type, extremely resistant to mildew.

**POWDERY MILDEW RESISTANT NO. 45 (HALE'S BEST NO. 45,
IMPERIAL NO. 45)** 85-90 days

Fruits: 5-5½ x 6-6½", weigh 3-4 lbs., similar in type and use to HALE'S BEST, but is resistant to powdery mildew, flesh thick, salmon colored flesh, firm, sweet. Can be shipped in more mature stage than HALE'S BEST. Preferred over HALE'S BEST in area where powdery mildew is prevalent. Can be picked at full slip for long distance shipping. In areas of extreme mildew use NO. 5.

PRIDE OF WISCONSIN (QUEEN OF COLORADO, JERSEY GOLD)

90-95 days

Fruits: 6-6½ x 6½-7½", weigh 3½-4½ lbs., thick, pointed oval, shallow but distinct ribbing with moderately sparse, very coarse netting; skin gray green, hard and tough; flesh orange, solid, thick, very sweet, good flavored. Has become well known in Eastern markets because of excellent flavor and market quality.

SCHOON'S HARD SHELL 90-95 days

Fruits: 6-7 x 7-8", weigh 5-7 lbs., thick oval with heavy blossom scar which resists cracking, prominent ribbing with abundant coarse netting, skin gray green becoming yellow at maturity, very hard and tough, flesh very thick, deep salmon-orange, solid, well flavored, excellent quality. Superlative shipping and market melon in BENDER group. This variety remains in palatable condition for longer time than other standard varieties.

SENECA BENDER 92-94 days

Fruits: 4¾-5½ x 6½-7½", weighing 5-6 lbs. Broad oval shape, coarsely netted and distinctly ribbed. Skin dark green, blanching to dull yellow at maturity. Flesh medium thick, salmon-orange, and sweet. Firm rind. A selection from BENDER'S SURPRISE, showing typical BENDER netting, ribbing and large blossom end scar. Satisfactory for nearby markets and home gardens. Vigorous and productive.

SUGAR ROCK (HONEY ROCK) ALL-AMERICA SELECTIONS Gold Medal 1933

82-87 days

Fruits: 5-6 x 5½-6½", weigh 3-4 lbs., globular to slightly oval, faint ribbing with abundant coarse netting; skin gray green becoming pale yellow at maturity, tough and hard; flesh deep salmon, medium thick, fairly solid, juicy, good quality. Very desirable home garden and local market type; not suitable for long distance shipping. Ripens between DELICIOUS and BENDER's.



HALE'S BEST NO. 36

TEXAS RESISTANT NO. 1 82-86 days

Fruits: $5\frac{1}{2}$ x $4\frac{3}{4}$ ". Oval moderately, netted, moderately thick, good salmon color, with firm texture. Flavor sweet and unique.

Resistance: Not entirely resistant to downy mildew. Almost entirely resistant to aphids. The vines show considerable resistance to melon worms.

Result of breeding work in Texas at Winter Haven Station.

TIP TOP (SURPRISE) 90-95 days

Fruits: $6\frac{1}{2}$ - 7 x $6\frac{1}{2}$ - $7\frac{1}{2}$ ", weigh 5-6 lbs., nearly globular, distinctly ribbed and sparsely netted; skin slate green; ripening to yellow; flesh salmon-yellow, thick, sweet and fairly juicy. Good home garden and local market type.

V-1 85 days

Fruits: Medium size, slightly oval, similar to POWDERY MILDEW RESISTANT NO. 45, except netting is a little rougher. Flesh is thick, salmon color, very sweet, small seed cavity. Particularly adapted for use on the Pacific Coast. Developed in Texas and carries no resistance to mildew, but is very tolerant of sulphur dusting, thus the grower can produce a clean crop without too much damage to vine.

GREEN FLESHED VARIETIES

BOTTOMLY (ANNE ARUNDEL)	83-88 days
Fruits: 4-5 x 5-6", weigh 3½-5 lbs., oval to round shape distinctly ribbed and heavily netted; skin dark green, with light green flesh; very productive, shows some disease resistance and drought tolerance.	
EXTRA EARLY HACKENSACK	80-85 days
Fruits: 6-7 x 5-6", weigh 3-3½ lbs., large, flattened globe shape, prominently ribbed with abundant interlaced netting; skin yellow mottled with green; flesh light green, juicy and good flavor. Home garden and local market type.	
EXTRA EARLY KNIGHT (KNIGHT'S EARLY, MARYLAND, SUGAR SWEET, SWEET AIR)	84-90 days
Fruits: 4-4½ x 5½-6", weigh 1½-2 lbs., oval shape, prominent ribbing with moderate netting; skin dark green, flesh light green with pink tint bordering seed cavity medium thick, very sweet, highly flavored, quite juicy, good quality. Popular market melon in Middle Atlantic States.	
JENNY LIND	80-85 days
Fruits: 5-6 x 4-4½", weigh 1½-2 lbs., distinct flat globe shape; shallow ribbing with fairly sparse netting; skin dull orange mottled with green; flesh light green, not too thick, soft, juicy, fair to good quality. Home garden and local market type.	
LARGE HACKENSACK (TURK'S CAP)	85-90 days
Fruits: Similar to EXTRA EARLY HACKENSACK, but later and larger fruited, being 7-8 x 5½-6" and weighing 5-6 lbs.	
OHIO SUGAR (GREEN FLESHED TIP TOP)	90-95 days
Fruits: Similar type to TIP TOP, but green fleshed; very large 7-8 x 8-9", weigh 6-8 lbs., thick oval to nearly globe shape, prominently ribbed with sparse netting; skin creamy yellow; flesh light green, fine textured, soft, juicy, sweet, good quality and flavor. Home garden and local market type.	
ROCKY FORD (NETTED GEM, EDEN GEM, NUTMEG)	87-92 days
Fruits: 4-5 x 4½-5½", weigh 1½-2 lbs., nearly globular, very shallow ribbing with abundant finely interlaced netting; skin dark green becoming mottled bronze; flesh green with narrow golden border at seed cavity, medium thick, fairly firm, very sweet, flavorful and juicy. Widely cultivated local market and shipper type.	

WINTER VARIETIES

CASABA (GOLDEN BEAUTY)	110-120 days
Fruits: 6-8" in diameter, weigh 5-6 lbs., globular, skin tough and smooth, with surface sparsely wrinkled; skin golden yellow; flesh very thick, white, sweet and spicy. Chiefly grown in California for long distance shipping as well as local market.	



SCHOON'S HARD SHELL

HONEY BALL 103-108 days

Fruits: 5-5½" in diameter, weigh 3½-5 lbs., globular, uniform; skin yellowish white, smooth with sparse fine netting; flesh pale silvery green, very juicy, sweet flavored. Excellent home, local market and shipping melon, selected from a cross of HONEY DEW and TEXAS CANNON BALL.

HONEY DEW, GREEN FLESHED (ANTIBES) 112-115 days

Fruits: 6-7½ x 7-8", weigh 5-6 lbs., globular to thick oval; skin smooth, hard creamy white to creamy yellow, occasional traces of netting; flesh very thick, pale emerald green, sweet, juicy, distinctly flavored. Good storage and shipping melon. Not adapted in the cooler shorter growing season of North and East.

CARDOON

Cynara cardunculus

LARGE SMOOTH

Perennial from GLOBE ARTICHOKE family. Grown for fleshy leaf stalks.
Plants: 3½-4½ ft. tall, grayish green, stalks almost spineless.

CARROT

DANVERS HALF LONG

75 days

Tops: 14-17" tall, heavy foliage, large collar and very strong tops.

Roots: 7-7½ x 1¼-1½" square shoulder with an occasional sunken crown, long slim taper with slightly tapered tap root. Medium dark orange skin, orange cortex and light distinct core. This vigorous growing, heavy-yielding, brittle fleshed variety does well under most environmental conditions.

DANVERS LONG STRAIN

75 days

Tops: Identical with DANVERS HALF LONG.

Roots: 7-8 x 1½-1¾", square shouldered with fewer sunken crowns. Long, slim taper with abrupt taper to tap root, medium orange skin, orange cortex and orange indistinct core. This is a longer rooted, coreless strain of DANVERS HALF LONG.

FRENCH FORCING

60 days

Tops: 10-12", refined foliage, small collar and medium strong top.

Roots: 2¼ x 1¾", thick, slightly tapering, abruptly stump rooted variety with the ability to deposit carotene early in development. Skin medium orange, cortex orange, with a medium size, paler colored core. Variety too short and too small for American markets, but useful on very heavy soil where pulling is difficult with larger varieties, and for frame forcing.

GREATER CHANTENAY

72 days

Tops: 16-18" tall, medium dense foliage with medium wide collar and very strong top.

Roots: 6-7 x 2-2½", rounded shoulder, almost cylindrical root, abruptly stump rooted. Dark orange skin, dark cortex and medium diameter core of same color. An improved CHANTENAY type characterized by smoother and longer roots with a very good core color. A dependable all-purpose variety.

HUTCHINSON

80-85 days

Tops: 14-17" tall, dense heavy foliage, resistant to Cercospora Leaf Spot. Large collar and strong tops.

Roots: 10-12 x 1½-1¾", square shoulder, long slim taper with long tap root. Medium to light orange skin, medium cortex and paler core. A coarser DANVERS type root that is very productive on rich land. Our strain, selected for smoothness and uniformity, is one of the best winter carrots.

IMPERATOR (TENDERSWEET)

ALL-AMERICA SELECTIONS

Silver Medal 1935

77 days

Tops: 14-16" refined top, small collar and moderately strong top.
Roots: 8-9 x 1 $\frac{1}{4}$ -1 $\frac{1}{2}$ ", rounded top, uniform and slightly tapering with abrupt tapering tip, dark orange skin, dark orange cortex and small dark orange core. A coreless, excellent colored, fine grained variety developed primarily for shipping trade.

IMPERATOR, LONG STRAIN

77 days

Tops: 14-16". Same as regular IMPERATOR.

Roots: 9-11 x 1 $\frac{1}{4}$ -1 $\frac{1}{2}$ ", Similar to regular IMPERATOR. This variety possesses all the good characters of regular IMPERATOR, differing only in length of root. Variety developed for bunching and dehydrating by growers on the Pacific Coast.

IMPROVED LONG ORANGE (ST. VALERY)

85-88 days

Tops: 18-20" tall, dense foliage with medium to large collar and strong top.

Roots: 9-12 x 1 $\frac{1}{2}$ -1 $\frac{3}{4}$ " rounded shoulder with no sunken crowns, uniformly, slightly tapered through entire length. Dark orange skin, dark cortex, with distinct dark core. An old standard variety for winter storage and bunching; also used for stock feed.

MORSE'S BUNCHING

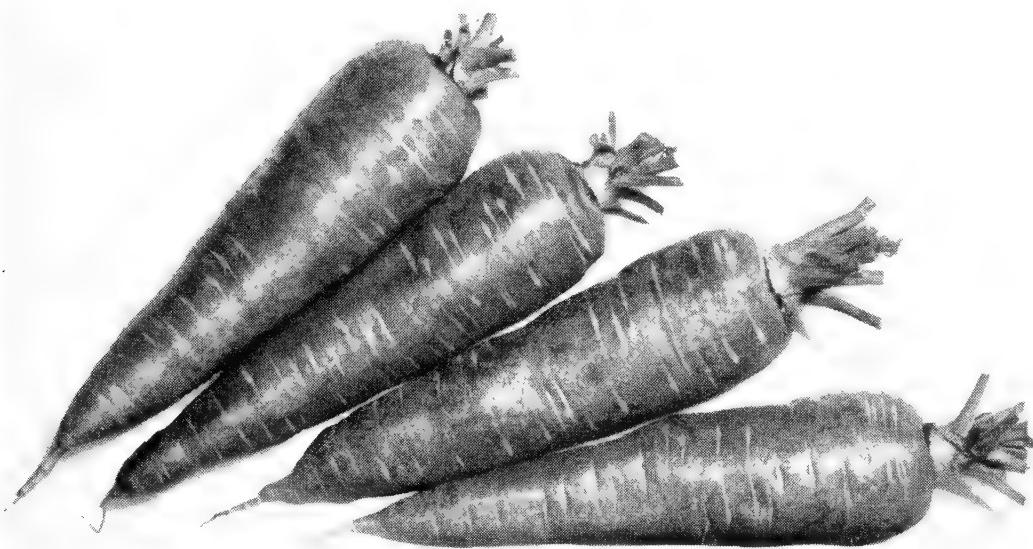
ALL-AMERICA SELECTIONS

Gold Medal 1934

77 days

Tops: 12-14", moderately dense foliage, medium to small collar, strong tops.

Roots: 7 $\frac{1}{2}$ -8 $\frac{1}{2}$ x 1 $\frac{1}{4}$ -1 $\frac{1}{2}$ ", rounded shoulder, uniformly, slightly tapering with a definite stump tip. Skin bright orange, cortex and small core are good orange. Variety desirable for freezing and very productive in the North.

**DANVERS HALF LONG**

NANTES HALF LONG (HALF LONG SCARLET NANTES CORELESS) 68 days
Tops: 12-14", very refined foliage, very small collar and weak top.
Roots: 6-7 x 1-1¼", round on top, uniformly cylindrical with very little taper, and rounded base. Bright orange skin and cortex with a very small dark orange core. This variety particularly adapted to home garden and frame forcing.

★NANTES STRONG TOP 68 days
Tops: 12-14", moderately coarse foliage, small to medium collar and strong top.
Roots: 6-7 x 1-1¼", round on top, uniformly cylindrical with no taper, round at base. Bright orange skin and cortex with very small dark orange core. This variety very similar to NANTES HALF LONG, except line has been carefully selected for ease in harvesting. This variety is recommended for canners and freezers.

OXHEART (GUERANDE) 80-82 days
Tops: 14-16" tall, coarse dense foliage, with large collar and strong tops.
Roots: 3-4 x 2-2½" square shoulder, heart shape, stump rooted with small tap root. Medium dark skin, medium dark cortex, large pale yellow cores. Ideally adapted to heavy soils and easily harvested under all conditions.

★RED CORED CHANTENAY 70 days
Tops: 14-16", moderately coarse foliage, small collar and strong top.
Roots: 5-6 x 2-2½", roundish shoulders, slightly tapering, stump rooted with refined tap root. Excellent dark orange skin and cortex with dark core. Flesh tender and sweet with uniform color. A very desirable variety for critical market gardeners and also suitable for all types of processing.

STREAMLINER 78-80 days
Tops: 10-12", tops — dense erect foliage, large collar and strong top.
Roots: 8-10 x 1¼-1½" rounded shoulder, long slim taper with long tap roots. Dark orange skin, cortex and core. Similar to IMPERATOR and MORSE'S BUNCHING, with an excellent color. Particularly adapted to light sandy loams with longer growing season.

★TOUCHON 70 days
Tops: 12-14" very refined foliage, small collar, and medium strong tops.
Roots: 6½-8 x 1-1¼", round on top, uniformly cylindrical with no taper to rounded base. Base orange skin, cortex and core. Excellent quality roots similar to NANTES, but roots are slightly longer and not so difficult to harvest. Definitely recommended for all markets and processors.

WHITE BELGIAN 90-95 days
Tops: 20-22" tall, coarse foliage with large collar and strong top.
Roots: 11-12 x 2½-3¼", square top gradually tapering to an elongate tap root. Roots grow partially out of ground and exposed areas are tinged with green. White skin cortex and core. Grown only for stock feed.

YELLOW BELGIAN 90-95 days
Same characteristics as WHITE BELGIAN except skin cortex and core are light yellow to lemon yellow.

CAULIFLOWER

Brassica oleracea var. *botrytis*

EARLY SNOWBALL

54-55 days

Heads: 6-7" in diameter, weigh 1½-2 lbs., deep, compact, creamy white curd, free from leaflets, excellent quality and flavor; very dependable header; uniform strain. Recommended for canning and freezing.

Plants: Dwarf, compact, upright leaves, pale blue green, shorter leaved than later varieties.

★SNOWDRIFT (WHITE MOUNTAIN)

57-60 days

Heads: 6½-7½" in diameter, weigh 1½-2 lbs., firm, compact, snowy white, fine textured, curb free from leaflets, good quality. Suitable for shipping and canning.

Plants: Slightly larger than SNOWBALL, long, large, upright leaves, giving good coverage, medium green.

★SUPER SNOWBALL

56-57 days

Heads: 6½-7½" in diameter, weigh 1¾-2½ lbs., deep, solid and compact, uniform type free from leaflets or defects, snowy white, excellent quality. Very good main crop for canning, freezing and shipping.

Plants: Dwarf type but larger spread and slightly taller than EARLY SNOWBALL; very uniform type; blue green, long and broad leaves which make good cover for bleaching.

CELERIAC

Apium graveolens var. *rapaceum*

Also called TURNIP ROOTED CELERY OR KNOB CELERY

GIANT SMOOTH PRAGUE

110-120 days

Roots globular; fairly smooth bulb 2½-4" in diameter, is the only edible portion, while hollow dark green stalks resembling loose celery are inedible; bulbs used for adding celery flavor to soups.

WOODRUFF'S ACE

115-120 days

Our new and improved strain of celeriac, which produces more vigorous tops and bulbs and is relatively more disease resistant; bulbs of this strain weigh 3-6 lbs.

CELERIAC

Apium graveolens var. *dulce*

GREEN VARIETIES

(Most varieties are resistant to fusarium wilt.)

EASY BLANCHING (SANFORD SUPERB)

105-110 days

Medium tall, medium green, compact and erect, easily blanched to creamy white; stalks broad, firm, crisp.



NON-BOLTING GOLDEN PLUME

EMPEROR (FORDHOOK) 125-130 days

Short, stocky, dark green, easily blanched to green tinted white with large golden heart; not a good shipper but noted for keeping qualities; stalks are heavy, very thick, flavorful, tender.

GIANT PASCAL 135-140 days

Old standard green variety; tall, large, dark green foliage, large, full heart which bleaches to creamy white; stalks are long, rounded, thick, brittle and of superior quality.

SECAUCUS GREEN 130-135 days

Fairly tall, 16-18", with first joint 7-8" long. A fine keeper and almost never shows any soft stalks and is more firm than GIANT PASCAL. A green celery popular in New Jersey and suitable for medium early or late crop.

SUMMER PASCAL	110-120 days
Stalks: 22-24", erect and compact with abundant medium dark green foliage. Stems 8-9" long, thick, rounded and smooth; quite numerous, forming a very heavy compact head with full long heart. Outer stems pale green, inner stems pale cream. Preferred by many growers for early fall harvest for nearby markets.	
SWEETHEART	100 days
An early maturing green variety. Compact plants are shorter than EASY BLANCHING, but produce an easily blanched, heavily hearted product satisfactory for early market and short time storage for the "heart" trade.	
UTAH (GOLDEN CRISP, SALT LAKE)	125-130 days
Very popular for fall planting, matures 20-30 days earlier than GIANT PASCAL; medium tall, sturdy and compact; not adapted to long shipping because of tenderness; thick, broad, well rounded stems, very crisp and flavorful. Resistant to fusarium yellows.	
WHITE PLUME	110-115 days
Early market type; medium tall, slender, compact bunch; foliage pale green, with white veining and edging; blanches easily to snowy white; crisp, solid, good flavor and quality.	
WINTER QUEEN (WINTER RELIANCE)	130-135 days
Semi-dwarf, compact, erect, has solid heart; blanches readily to creamy white; stalks thick, solid and crisp.	
WOODRUFF'S BEAUTY	85-90 days
Dwarf, green, very compact, heavy; similar in appearance to GOLDEN SELF BLANCHING, but green plant.	

YELLOW VARIETIES

CORNELL NO. 19	110 days
Developed by Cornell University. It is early and easy blanching like GOLDEN SELF BLANCHING. Has the quality of UTAH PASCAL. Plant is about 23" tall and 10" to joint. Highly resistant to fusarium yellows. Frequently bolts as spring crop.	
GOLDEN DETROIT (DWARF GOLDEN SELF BLANCHING)	
An improved strain of GOLDEN YELLOW SELF BLANCHING. Taller, with somewhat longer stems and not as blocky or dumpy as the original strain. Blanches readily and stands handling and shipment very well.	

GOLDEN PLUME

Shorter strain now becoming obsolete, and being superseded by taller strains such as WONDERFUL.

GOLDEN PLUME — NON BOLTING 120 days

Belongs to the group of DWARF GOLDEN strains. However, the tops are darker green and the leaves are smaller, and though the plants aren't quite as tall, the edible stalk is longer. It is recommended for early planting where bolting is likely to occur, because it will never bolt under any condition. Very stiff plant 18-20" tall, 6" to joint; short heavy hearted strain.

GOLDEN SELF BLANCHING (PARIS GOLDEN) 112-115 days

Medium tall, compact, erect; foliage yellow green, blanching very easily to creamy yellow stalks and golden yellow foliage; stalks broad, semi-round, medium length, crisp and good flavor. On East Coast the margin of leaf becomes chlorotic as plant becomes overmature.

LONG JOINTED WONDERFUL 115-120 days

Selection from WONDERFUL for taller strain; has all good characteristics of WONDERFUL plus more attractive bunch for market because of added length.

MICHIGAN GOLDEN (NO. 99 GOLDEN)

A yellow, self-blanching variety developed and sold by Michigan State College. Highly resistant to fusarium yellows but not to other celery diseases. It is a GOLDEN PLUME type of medium height, medium long stem and very easy blanching.

TALL FRENCH, FERN LEAF (TALL GOLDEN SELF BLANCHING)

105-110 days

Tall, very compact, medium diameter bunch, blanches readily to creamy white; stalks long, medium broad, medium thick, fair to good quality.

WONDERFUL 112-117 days

Medium tall, very thick set, compact bunch; foliage yellow green, easily blanched to creamy yellow; stalks fairly long, crisp, solid, of exceptional flavor and quality; heavy yielder. Excellent late crop market and shipping type.

C H E R V I L

Anthriscus cerefolium

CURLED 60-65 days

An annual used for garnishing and seasoning; seed germinates very slowly; leaves are brilliant green, finely cut and curled, giving appearance similar to parsley; aromatic and pungent. Must be seeded as spring or fall crop, over wintering when protected, because plant does not thrive under hot weather conditions.

PLAIN OR COMMON

This variety is essentially obsolete because the curled strain is more attractive.

C H I C O R Y

Cichorium intybus

CICCORIA CATALOGNA (RADICHELLA, ASPARAGUS) 60-65 days

Popular for early greens, being a rapid growing annual; plant has appearance of dandelion, with young seed stalk used in a manner similar to spear of asparagus; both young leaves and seed stalk are edible, tender and of dandelion flavor. Asparagus type recommended for spring planting.

CICCORIA CATALOGNA, QUARANTINE STRAIN

Foliage only moderately cut, thus a greater leaf area per plant. Has only 20-30 leaves per plant and grows partially prostrate. Asparagus type recommended for fall planting.

CICCORIA CATALOGNA, SAN PASQUALE STRAIN . . . 65 days

Foliage deeply cut, shorter than regular CICCORIA CATALOGNA and lighter in color. 40-50 leaves per plant, erect and compact. This strain has a more attractive plant than the QUARANTINE STRAIN. Does not have the asparagus type shoot in center.

MAGDEBURG, LARGE ROOTED (COFFEE)

Roots are 12-14" long and 2" in diameter at top. Roots mature in 4 or 5 months. Dried roots are ground and used as a substitute for, or an adulterant of coffee.

WITLOOF (FRENCH ENDIVE) 140-160 days

Used extensively as a salad crop. Parsnip-like root must be graded, re-set, in cold frame or greenhouse in the North to produce a marketable product. Late growth or second growth forms compact, easily blanched head 4-6" long of crisp, tender leaves having distinctive sharp flavor. This is the endive for the epicure as a winter delicacy.

C H I V E S

Allium schoenoprasum

CHIVES

Small, clustering, hardy perennial belonging to onion family; produces dense clusters of fine onion leaves which are used in salads or soups and for garnishing.

C O L L A R D

Brassica oleracea var. *acephala*

BLUE STEM

. 70-80 days

Plants not as tall as CABBAGE, more spreading and broad-leaved without tendency to form loose head, blue green.

CABBAGE

. 60-70 days

Plants 18-24" tall; smooth, large, blue green, loosely folded and crumpled leaves, used for greens in South; usually showing appearance of partially formed cabbage head. Developed from cross of GEORGIA COLLARD and WAKEFIELD CABBAGE.

GEOORGIA (SOUTHERN, CREOLE) 70-80 days

Old standard variety. Plants 24-30" tall with very broad, slightly crumpled, spreading leaves; upper leaves show incurling tendency, but not as pronounced as in CABBAGE; pale blue green to medium green foliage.

GREEN GLAZE 75 days

Plants 20" tall, medium size, blue green, loosely cup shaped leaves, occasionally forming a very loose head. The variety is distinct in having a glistening shiny appearance much in demand by the southern trade. Variety able to withstand much cold weather without damage to market quality.

LOUISIANA SWEET 85 days

Developed by Dr. Julian C. Miller of the University of Louisiana. An excellent quality collard with larger leaf area on smaller stems. The thick tender leaves have an appealing color.

VATES NON-HEADING 75 days

The plant is low growing, broad and spreading. No true heads are formed, but the inner leaves may curl somewhat. Overwinters in Virginia with practically no injury. The leaves are very broad bladed, thick textured, slightly curled sidewise and lengthwise. Veins very prominent. The color is a brilliant, glossy green, but sometimes grayish green, with a light, waxy bloom. There is no purpling of veins or leaves. It seeds late. Preferred by canners because of the texture and lack of purpling. Bred and introduced by the Virginia Truck Experiment Station, from which the name VATES is derived.

H Y B R I D S W E E T C O R N S

Hybrid Corns presented here are the result of eighteen years of corn breeding work by our company and close cooperation with the men at the various state and federal institutions doing Sweet Corn breeding work. Without their cooperation and development work, Hybrids Sweet Corn would not be advanced to its today's position in the Sweet Corn field. To these men we express our most sincere gratitude.

Data presented are comparative and taken as an average of our many years of trials. Your maturity dates may vary for a given location, due to soil fertility, climate and growing area.

It is our sincere hope that we may add to or replace these present day hybrids of a given maturity with better adapted, higher producing, better quality, more drought tolerant, insect tolerant and disease resistant hybrids through our extensive breeding and trial program in cooperation with the state and federal institutions.

No phase is overlooked to give you as near perfect seed as is possible from the standpoint of production, which includes careful maintenance of highly productive inbred lines, proper detasseling in production fields, careful harvest, drying and milling with the best modern equipment.

SWEET CORN

YELLOW HYBRIDS

CARMELCROSS 74 days

This cross of Connecticut inbreds 13 and 30 was developed by Dr. Singleton of the Connecticut Agricultural Experiment Station for a large eared, wilt resistant, second early market hybrid.

Ears: 7-7½", large, slightly tapering, 12-14 rows, straight rowed, usually well filled tips, heavy husk; ears average 8¼ oz.

Kernels: Deeper golden than MARCROSS, medium breadth, medium depth, good flavor, inclined to be starchy, good quality; becoming popular as second early market type, or an early canner in northern latitudes.

Plants: 5', medium breadth leaves, medium green, medium heavy stalk, fair roots, and few suckers. This hybrid occasionally shows smut.

EARLIGOLD, WOODRUFF'S NEW 70 days

Ears: 7-7½" long, slightly tapered, uniform, 12 rows, well filled tip and tip coverage; borne at 14".

Kernels: Bright yellow, good quality and flavor, suitable for cream style pack in northern canning areas where short season is a factor.

Plants: 6' tall, medium heavy stalk, good root system, few suckers and a fair yield of fodder. Performs well under adverse conditions and carries a high resistance to bacterial wilt.

★GOLDEN CROSS BANTAM 82 days

Developed by Mr. G. M. Smith, Purdue University Agricultural Experiment Station for a canners' hybrid. It is a leading hybrid for all processes.

Ears: 7½-8", very uniform, 12-14 rows, cylindrical to tapered at tip, straight rows, medium coverage of medium heavy husks; husked ears average 6½ oz.

Kernels: Rich yellow, medium breadth and medium depth to deep, excellent flavor and quality for whole kernel, whole ear or frozen pack.

Plant: 6½-7½', medium breadth leaves, medium green, moderately heavy stalk, well rooted, occasional suckers, good yield of excellent quality fodder.

GOLDEN CROSS BANTAM (RED TASSEL) 82 days

The same as GOLDEN CROSS BANTAM in all respects except the color of the tassel.

GOLDEN EVERGREEN HYBRID 83-85 days

Developed by us to replace open pollinated BANTAM EVERGREEN.

Ears: 7½-8½", large cylindrical to slightly tapered, 12-16 rows, straight rowed, well filled tips, heavy husk coverage; ears average 8¼ oz.

Kernels: Dark yellow, medium breadth, deep, good flavor, good quality; suitable for cream or whole kernel pack.

Plants: 7½-8½', medium to broad leaved, dark green heavy, well rooted stalk, very extensive root system, rarely suckered; good yield of heavy fodder.

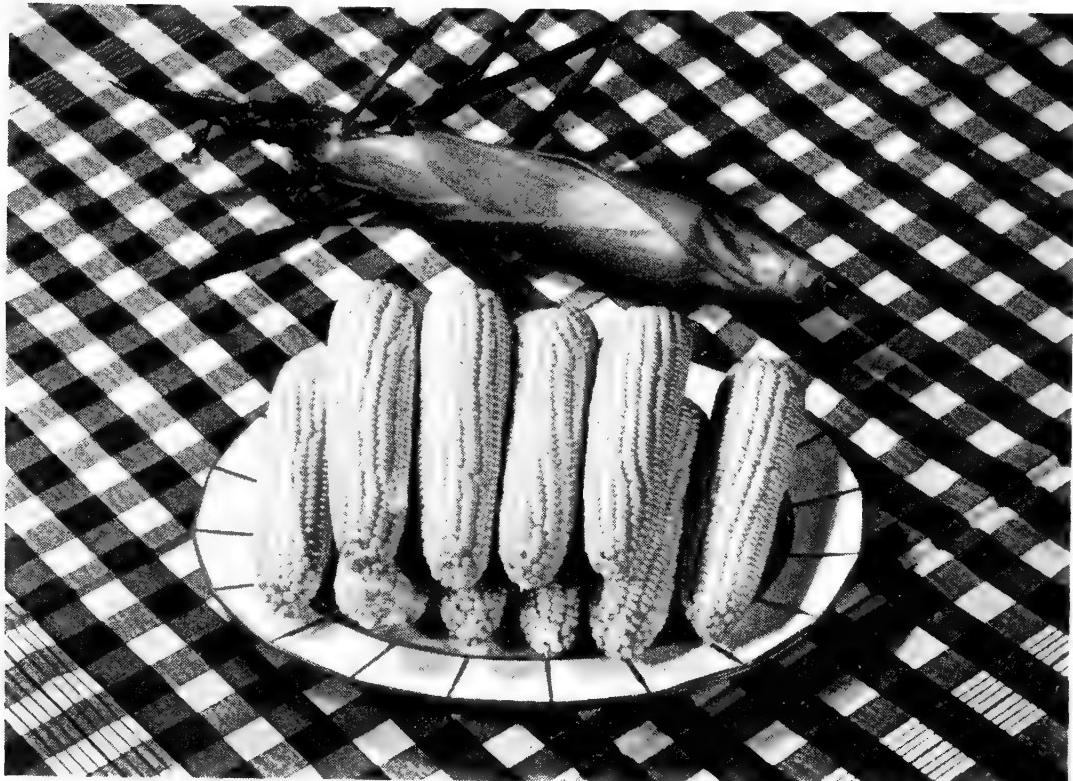
GOLDEN SECURITY

82 days

Ears: 8-8½", borne at 30", cylindrical, well filled, 14-16 rows, average weight .8 lb.

Kernels: Bright golden yellow, narrower than GOLDEN CROSS, deep, tender, excellent quality and flavor.

Plants: 7½-8' tall, heavy stalk and foliage. Vigorous, excellent root system, dark green, very drought resistant. This is one of our own introductions for midseason market garden and canning uses. Its yield is greater than any other hybrid in our trials, usually having two ears per stalk.

**GOLDEN SUPREME****GOLDEN SUPREME**

83 days

Ears: 9-10½", 12-14-16 rows (about $\frac{2}{3}$ 16 rowed), well filled, average weight 1 lb. Heavy husks and good tip coverage.

Kernels: Very deep, round shouldered, golden yellow, good quality.

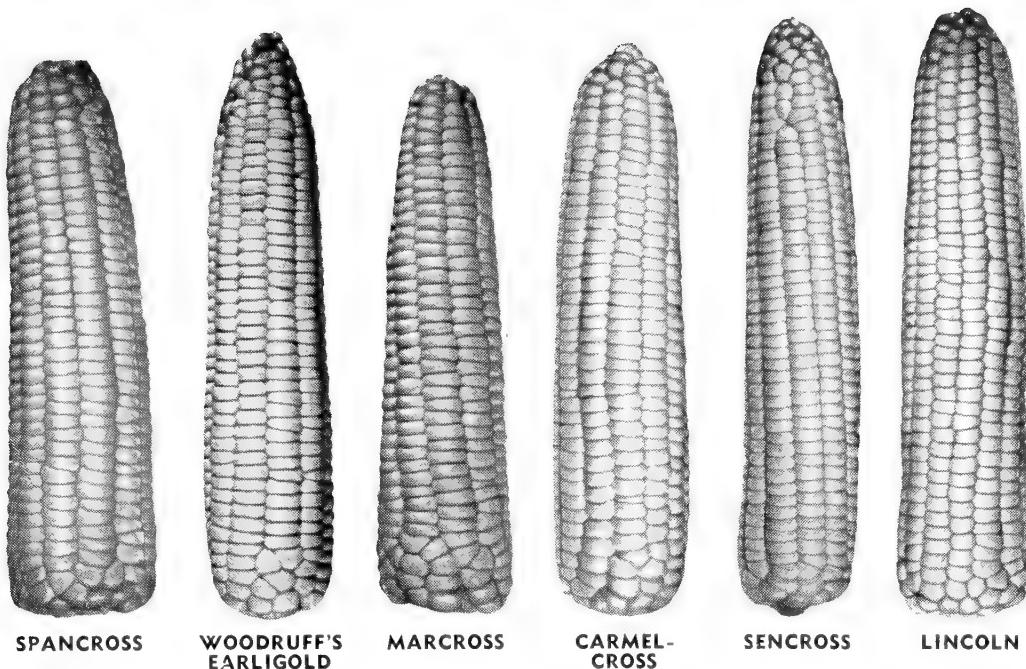
Plants: 6' tall, rarely suckered, darker green than GOLDEN CROSS BANTAM. The newest hybrid developed by Woodruff for main market crop, in season with GOLDEN CROSS BANTAM but larger eared.

GOLDENWOOD IMPROVED

92-95 days

Drought resistant hybrid developed by us.

Ears: 7½-8½", cylindrical to slightly tapered, 14-18 rows, straight rowed, usually well filled tips, medium heavy husk which is long and tight and affords excellent tip protection; ears average 11 oz.



Kernels: Medium to dark yellow, medium breadth, medium depth to deep, good flavor, desirable for cream or whole kernel pack, also suitable for whole ear pack in cooler climates.

Plants: 7½-8', narrow to medium breadth leaves, dark green, medium heavy stalk, well rooted, very leafy fodder. Entirely 2-eared and in thinner stand will develop many 3-eared plants.

ILLINOIS GOLDEN NO. 10 83 days

Cross of Illinois inbreds 101q and 73c, developed by Dr. W. A. Huelsen of the Illinois Agricultural Experiment Station, for a heavier yielding main crop market garden strain.

Ears: 7½-8", very uniform, 12-14 rows, cylindrical to slightly tapered, straight rowed, large tight husks, ears average 8-8½ oz.

Kernels: Medium yellow, medium breadth, deep, excellent flavor and quality; excellent for whole kernel pack.

Plants: 6½-7½', medium breadth leaves, dark green, heavy stalk, better root system than GOLDEN CROSS BANTAM, rarely suckered, good yield of medium quality. Very drought tolerant.

ILLINOIS GOLDEN NO. 16 82 days

Ears: 7-10", tight husk, borne 24" from ground, 12-18 rows, average weight 0.7 lb.

Plants: 6' tall, rarely suckered.

Developed by Dr. W. A. Huelsen of the Illinois Agricultural Experiment Station for a better quality hybrid than Illinois No. 10, in the same season. It has comparable ear-worm tolerance and has proven adaptable to a wide area all over the U. S. In our Ohio trials it averaged 14,000 ears per acre.

IOANA ALL-AMERICA SELECTIONS Bronze Medal 1940 82 days

This cross of Iowa inbred 45 and Purdue 39 was developed by Dr. E. S. Haber of the Iowa Agricultural Experiment Station for a larger eared main crop cannery strain.

Ears: 8-8½", very uniform, cylindrical with rounded tip, 12-14 rows, straight rowed, good coverage of moderately heavy husk, ears average 11 oz.

Kernels: Light yellow, medium breadth, medium depth to deep, near the tenderness and flavor of GOLDEN CROSS BANTAM.

Plants: 6½-7½', broad leaves, dark green, heavy stalk, well rooted, very few suckers, shows more earworm and drought tolerance than GOLDEN CROSS BANTAM.

LEE 80 days

Ears: 7-8" long, 12-14-16 rows, large, cylindrical, well filled to tips, and good husk coverage, wt. 9½ oz.

Kernels: Good yellow, wide, medium depth.

Plants: Stalks 6½' tall, sturdy, deep green broad leaf. Developed by Dr. Singleton of the Connecticut Agricultural Experiment Station. This hybrid is similar to LINCOLN except for red tassels and red silks.

LINCOLN ALL-AMERICA SELECTIONS Bronze Medal 1942 79 days

Midseason wilt resistant yellow hybrid developed by Dr. Singleton of the Connecticut Agricultural Experiment Station for market.

Ears: 7½-8", cylindrical, 12-16 rows, straight rowed, well filled tips, good tip coverage; ears average 9-10 oz.

Kernels: Medium yellow, narrow, shallow, fair flavor and quality.

Plants: 6-6½', medium breadth leaves, medium green, well rooted, few tillers and fair fodder yield.

MARCROSS 71 days

This is an early market hybrid using Connecticut 13 and Woodruff's C-6 A.

Ears: 6-7", slightly tapered, uniform, 10-12 rows, straight rowed, fairly well filled tips, heavy husk coverage, husked ears average 9 oz.

Kernels: Light to medium yellow, medium to broad, medium depth, good flavor, and good quality for market gardens.

Plants: 5-5½', medium breadth leaves, medium green, heavy, well rooted stalks, few suckers, fair fodder yield. Best adapted to eastern and northern market garden areas.

MIDGOLDEN 74 days

A Woodruff hybrid, second early season.

Ears: 7-8", tight husks, cylindrical, 10-12-14 rows, average wt. 9 oz.

Kernels: Bright yellow, very good quality.

Plants: 6' tall, highly resistant to drought, few tillers, excellent root system. Adapted to northern half of corn growing areas. Second early market garden, or early canner.

PRISCILLA

68-70 days

Ears: 6½-7" long, cylindrical with well filled tip, 10-12 rows, sweet, of high quality, and tender.

Kernels: Yellow, medium width and depth.

Plants: 4' tall. Developed by Connecticut Agricultural Experiment Station, this hybrid is recommended especially for early market garden use.

SENCROSS, IMPROVED

76 days

Developed by us for high yielding, second early cannery and market gardening hybrid.

Ears: 7-8", cylindrical to slightly tapered, 12-14 rows, straight rowed, well filled tips, heavy husk, giving very good coverage; ears average 9 oz.

Kernels: Medium yellow, medium breadth, medium depth to deep, good flavor, quality, desirable for cream style, whole kernel or frozen pack.

Plants: 6', medium breadth leaves, dark green, medium heavy stalk, well rooted, few suckers, excellent fodder for season.

SPANCROSS 13 x 4ALL-AMERICA  SELECTIONS

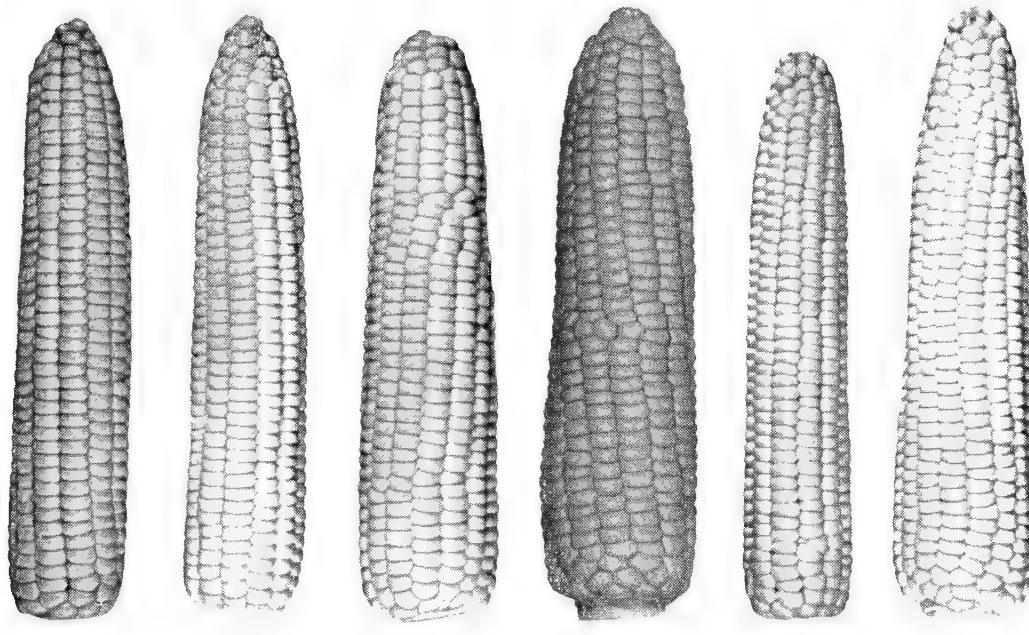
Honorable Mention 1941 66-68 days

Early hybrid developed by Drs. Singleton and Jones of the Connecticut Agricultural Experiment Station for first early market.

Ears: 6½-7", medium size, slightly tapered to tapered, fairly well filled tips, 10-14 rows, straight rowed, fair husk coverage; ears average 8 oz.

Kernels: Variable yellow, mostly medium yellow, narrow to medium, medium depth, fair flavor, fair to good quality.

Plants: 4½-5', medium breadth leaves, medium dark green, fairly well rooted, moderate suckering, small fodder yield. Needs high fertility level for best growth.



★TENDERGOLD 78 days

Ears: 7-8", cylindrical to tapered at tip, 10-14 rows, straight rowed, well filled tips, medium husk with good tip coverage; ears average 8 oz.

Kernels: Medium yellow, medium breadth, medium depth, good flavor and quality; whole kernel appearance is very similar to GOLDEN CROSS BANTAM; used for whole kernel pack.

Plants: 6½-7', medium breadth leaves, medium to dark green, medium heavy stalk, fairly well rooted, few suckers, fair amount of good quality fodder for season.

TOPCROSS MAINE BANTAM 79 days

Ears: 7½" long, slightly shorter and thicker than GOLDEN CROSS BANTAM, 12-16 rows and slightly tapered.

Kernels: Yellow, medium narrow, tender.

Plants: 6' tall, sturdy, deep green, highly resistant to bacterial wilt.

★VICTORY GOLDEN 84 days

Ears: 8-8½" long, uniform, average weight of .8 pound, 12-14-16 rows, placed 24" on stalk with good husk coverage.

Kernels: Medium width, golden yellow, tender, exceptional quality and flavor.

Plant: 7½-8' tall, few suckers, heavy fodder yield, sturdy deep green stalks and foliage. Highly resistant to bacterial wilt and has a low smut frequency.

This is one of our introductions for the canning trade. It is an exceptionally high yielding, high quality corn.

WHIPCROSS 79 days

A larger eared WHIPPLE hybrid in WHIPPLE season.

Ears: 7-8", slightly tapered with square tip end, very well filled tips, 14-16 rows, straight rowed, heavy coarse husk; ears average 9 oz.

Kernels: Medium to dark yellow, narrow to medium breadth, medium depth to deep, fair flavor.

Plants: 7-8', medium breadth leaves, medium green, heavy still stalk, rarely suckered, good fodder yield.

YELLOW OPEN POLLINATED VARIETIES

BANTAM EVERGREEN (GOLDEN EVERGREEN, EVERGREEN GOLDEN BANTAM)

Ears: 7-8", 10-16 rows, cylindrical to slightly tapered, usually well filled tips, straight rowed, heavy loose husk, ears average 10 oz.

Kernels: Dark yellow to tangerine, broad to very broad, medium depth to deep; good appearance in whole grain pack, good flavor.

Plants: 6½-7½', medium to dark green, heavy stalk, not too well rooted, occasional suckers.

BARDEN'S WONDER BANTAM 76 days

Large, long eared, coarse kernelled GOLDEN BANTAM strain which will out yield GOLDEN BANTAM under favorable conditions but does not have the quality, flavor, or uniformity of good strains of 8-rowed GOLDEN BANTAM; is more drought and heat tolerant.

EARLY YELLOW SENSATION 67 days
Ears: 6-7½", 10-16 rows, cylindrical to slightly tapered, straight rowed, well filled tips, well covered, more resistant to smut and diplodia than GOLDEN EARLY MARKET or SUNSHINE; ears average 9 oz.
Kernels: Light to medium yellow, medium breadth, medium depth to deep, good flavor.
Plants: 5-6', dark green, heavy stiff stalked, very few suckers.

EXTRA EARLY BANTAM 65 days
Ears: 6-7½", cylindrical, 8-10 rows, straight rowed, fairly filled tips, good husk coverage occasionally developing streamers; ears average 7½ oz.
Kernels: Variable yellow, mostly dark yellow, medium to broad, shallow to medium depth, fair to good flavor, fair to good quality.
Plants: 4½-5½', narrow leaves, dark green, well rooted, moderate to heavy suckering, fair fodder considering earliness.
Early home garden or local market strain where 8-rowed ear is desired.

GOLDEN BANTAM 75 days
Ears: 6½-7½", 8 rows, slender, cylindrical, usually well filled tips, straight rowed, well covered with heavy husks carrying streamers; ears average 6 oz.
Kernels: Deep golden yellow or yellowish orange, broad, medium depth, uniform type making desirable pack, tender and good flavor.
Plants: 4½-5½', dark green, stiff stalked, usually with one to three large suckers.

GOLDEN EARLY MARKET (EARLY GOLDEN MARKET, GILL'S GOLDEN EARLY MARKET) 75 days
Ears: 6-7½", slightly tapered to tapered, 10-16 rows, straight rowed, moderately filled tips, fair husk covering; ears average 8½ oz.
Kernels: Light to medium yellow, medium to broad, shallow to medium depth, fair to good flavor, fair to good quality. Large eared early market corn.
Plants: 5½-6½', medium breadth leaves, medium dark green, fairly well rooted, few suckers, susceptible to fusarium, diplodia and smut in more humid corn regions.

GOLDEN GIANT 74 days
Ears: 7-8", 10-16 rows, slightly tapered, straight rowed, usually well filled tips, good husk coverage, with moderately coarse husks; ears average 10 oz.
Kernels: Medium yellow, medium breadth, medium deep to deep, good flavor, mostly thin hulled.
Plants: 6½-7½', dark green, medium heavy stiff stalk, only occasional suckers.

GOLDEN MIDGET 65-68 days
Ears: 3½-4", 8 rows, cylindrical, straight rowed, moderately well filled tips, good husk.
Kernel: Medium to pale yellow, wide, shallow, excellent flavor.
Plants: 3' tall, very slender, many suckers, weak stalked, ears 4" from ground, dark green with red midrib. A home garden novelty.

GOLDEN SUNSHINE 67 days
Ears: 6-7½", 10-14 rows, cylindrical to slightly tapered, straight rowed, well filled tips, fairly well covered, more susceptible to fusarium wilt, smut and diplodia than EARLY YELLOW SENSATION: ears average 8½ oz.
Kernels: Light to medium yellow, medium breadth and medium depth, very tender and flavorful.
Plants: 5-5½', medium green, moderately heavy, fairly stiff stalked, few suckers.

IMPROVED GOLDEN BANTAM 78 days
Ears: 6-7", 10-14 rows, cylindrical to slightly tapered, well filled tips, straight rowed, fairly well covered; ears average 9½ oz.
Kernels: Medium to dark yellow, medium breadth and medium depth, fairly tender, sweet, good flavored.
Plants: 5-6', dark green, fairly stiff stalked, will develop one or two suckers on fertile soils.

SIXTY DAY GOLDEN 64 days
Ears: Early selection from GOLDEN EARLY MARKET and similar to that variety but ears 5½-7", averaging 7¾ oz.
Kernels: Same type as GOLDEN EARLY MARKET.
Plants: 4½-5½', GOLDEN EARLY MARKET type, especially susceptible to fusarium and smut, will produce many barren stalks on low fertility levels.

SPANISH GOLD 62 days
Ears: 5-6½", cylindrical to slightly tapered, 10-16 rows, straight rowed usually, mostly well filled tips, good husk coverage; ears average 6¼ oz.
Kernels: Small, variable yellow, mostly dark yellow or orange tinged, narrow to medium breadth shallow to deep, fair flavor, fair quality. Being pseudo-starchy this variety germinates well early in the spring for a first early crop.
Plants: 4½-6', variable height depending on fertility level, narrow leaves, very dark green, good roots, moderate suckers.

WHIPPLE'S EARLY YELLOW 75 days
Ears: 6½-8", 12-16 rows, slightly tapered to tapered, usually well filled tips, mostly straight rowed, heavy long husk covering; ears average 10 oz.
Kernels: Medium yellow, narrow to medium breadth and medium depth to deep; more variable kernel type than most varieties, good flavor, but variable tenderness.
Plants: 5-6½', medium green, very heavy stalk, mostly stiff stalked, few suckers.

WHITE HYBRIDS

COUNTRY GENTLEMAN HYBRID, ILLINOIS 8 x 6 91 days
Developed by Professor W. A. Huelsen, University of Illinois, for canners.
Ears: 7½-8", zigzag kernel pattern, cylindrical to slightly tapered; well filled tips, ears average 12 oz.

Kernels: Creamy or ivory white, very deep, slender kernel, very uniform type, good flavor, excellent quality; has shown high cutting percentage over period of years. Good for whole grain pack.

Plants: 6½-7½', medium breadth leaves, medium green, medium heavy stalk, well rooted, develops only occasional suckers, chief characteristic is presence of "shepherd's crook" tassel caused by delayed extrusion of tassel from upper leaves. This trait more prevalent under drought conditions than under humid conditions.

COUNTRY GENTLEMAN HYBRID, ILLINOIS 13 94 days

Ears: 7-8" long, excellent husk coverage, average weight .68 pound.

Kernels: Deep, shoepeg type, white, first in quality for either cream style or whole kernel pack.

Plants: 7' high, sturdy, well eared, good yielder, deep green foliage. Developed by Professor W. A. Huelsen of the University of Illinois.

COUNTRY GENTLEMAN HYBRID, ILLINOIS 14 92 days

Ears: 7-8" long, average weight .7 pound, cylindrical, slight taper.

Kernels: Near the size, shape and color of the old shoepeg, but deeper.

Plants: 7¼' tall, good yield and quality.

Developed by Professor W. S. Huelsen of the University of Illinois.

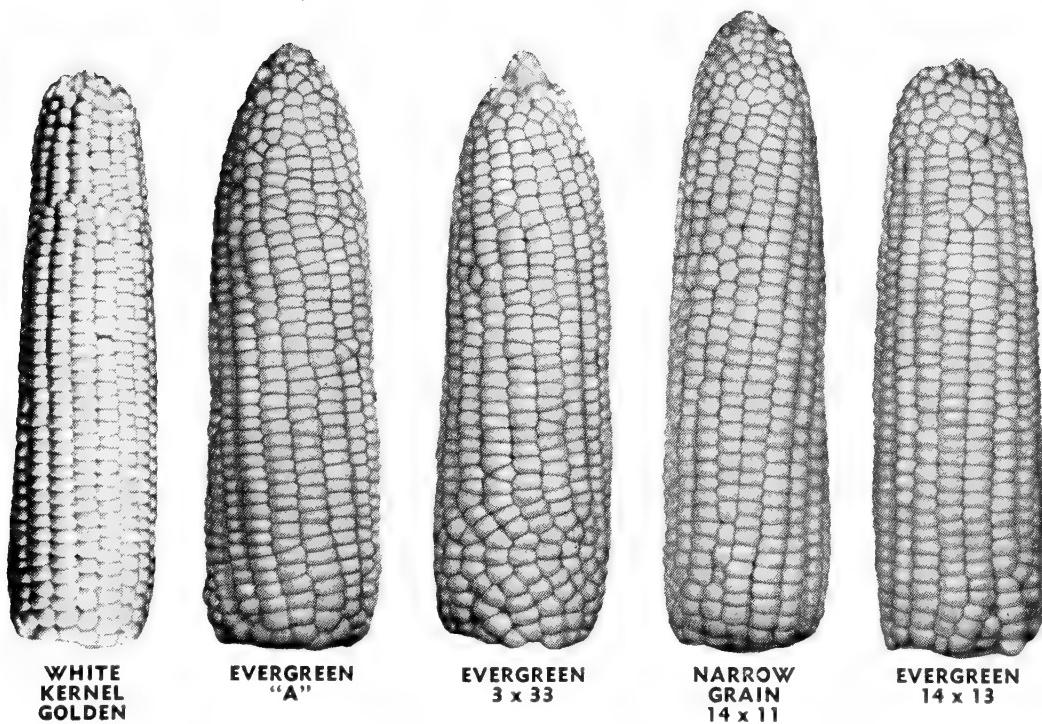
COUNTRY GENTLEMAN HYBRID, ILLINOIS 15 92 days

Ears: 7-7½", average weight .67 lb., cylindrical with slight taper, good husk coverage.

Kernels: Good shoepeg kernels of better than average depth.

Plants: 7' tall, medium green, better than average yield for COGENT.

Developed by Professor W. S. Huelsen of the University of Illinois.



EVERGREEN HYBRID A (EARLY EVERGREEN HYBRID) . . . 91 days

Developed by us from midwestern material to replace open pollinated EARLY EVERGREEN.

Ears: 8-8½", large, cylindrical, straight rowed, 16-18 rows, well filled tip, excellent husk coverage of long heavy husks; ears average 13 oz.

Kernels: Snowy or chalky white, narrow, deep, uniform type, good flavor, thin hulled, good to excellent quality; high cutting percentage.

Plants: 7½-8½', broad leaved, heavy stiff stalk, medium to dark green, almost suckerless, occasionally 2-eared, well rooted, heavy fodder yield.

EVERGREEN HYBRID 3 x 33 93 days

Developed by us from midwestern material for good hybrid of STOWELL'S season and type.

Ears: 8½-9", very uniform, cylindrical, 16-18-20 rows, straight rowed, well filled tips, excellent husk coverage; ears average 13 oz.

Kernels: Snowy or chalky white, medium breadth, medium deep to deep, good flavor and excellent quality, heavy yield and high cut; good for whole kernel or cream style pack.

Plants: 8½-9', medium leaves, heavy, stiff stalk, excellent rooting, dark green, many 2-eared stalks, rarely suckered; gives leafy, excellent yield of fodder.

EVERGREEN 14 x 13 93 days

Developed for canners by Professor W. A. Huelsen of the Illinois Agricultural Experiment Station.

Ears: 8-8½", large cylindrical to slightly tapered, 16-18 rows, straight rowed, well filled, good coverage; ears average 13½ oz.

Kernels: White, medium breadth, deep, good flavor and quality.

Plants: 8', narrow to medium breadth leaves, medium dark green, well rooted, single stalked, good leafy fodder.

IOGREEN 56 95 days

Ears: 8½-9", 20-22 rows, average weight .81 lb., borne about 34" above the ground, cylindrical, slight taper at tip, well filled.

Kernels: Narrow, deep, tender, and white.

Plants: Stalk 8' high, very sturdy with broad, heavy dark leaf.

An Evergreen Hybrid introduction developed by Dr. Habber of the Iowa Agricultural Experiment Station.

NARROW GRAIN HYBRID 93 days

Developed by us to replace open pollinated NARROW GRAIN.

Ears: 8-9", large, uniform, cylindrical, 18-20 rows, straight rowed, well filled tips, good husk coverage; ears average 12½ oz.

Kernels: Creamy or ivory white, narrow, deep, good flavor and quality, high cutting per cent; excellent for whole grain pack and cream style.

Plants: 7¾', medium breadth leaves, heavy stalk, well rooted, medium to dark green, very few suckers, heavy yield of good quality fodder.

NARROW GRAIN 14 x 11 93 days

Developed for canners by Professor W. A. Huelsen of Illinois Agricultural Experiment Station.

Ears: 8-8½", large cylindrical, 16-18-20 rows, straight rowed, well filled, good coverage, ears average 12¾ oz.

Kernels: White, narrow, very deep, of good quality.

Plants: 8¼', medium breadth leaves, dark green sturdy, well rooted stalk.

STOWELL'S TOPCROSS 94 days

Developed by us for large eared, uniform STOWELL's type.

Ears: 8-9", uniform, cylindrical to slightly tapered, 16-20 rows, straight rowed, mostly well filled tips, excellent heavy husk coverage; ears average 13¼ oz.

Kernels: Creamy white, STOWELL's width, deep, good flavor, and quality, heavy yield and high cut, very desirable for cream style or whole grain packs and for marketing where large late white corns are acceptable.

Plants: 8-9', medium breadth leaves, medium heavy, stiff stalk, dark green, rarely 2-eared stalks or suckers, produces good quality leafy fodder and probably heaviest fodder yield of all our hybrids.

WHITE KERNEL GOLDEN CROSS 85 days

Ears: 7½-8" long, average weight .69 lb., 14-16 rows.

Kernels: Similar to GOLDEN CROSS BANTAM except that the kernels are a creamy white.

Plants: Stalks 7' tall, more vigorous than GOLDEN CROSS BANTAM with a 6" higher ear placement.

This is a Woodruff introduction, especially made for the canning trade, and has been very acceptable for early market garden white corn.

WHITE OPEN POLLINATED VARIETIES

GILL'S EARLY WHITE MARKET 75 days

Same as GOLDEN EARLY MARKET except that kernels are white and ears a little more tapered.

BLACK MEXICAN 77 days

Ears: 5½-7", 8 rows, cylindrical, fairly well filled tips, straight rowed, moderately heavy husk; ears average 7 oz.

Kernels: Snowy white, broad, shallow to medium depth, excellent flavor, usually excellent quality. Characterized by the blue black aleurone which starts to develop in milk stage from micropyle over crown and down sides giving kernels blue black or purple appearance in dry seed stage.

Plants: 5-6', narrow leaves, dark green, well rooted, may be heavily suckered, thrifty, vigorous, prolific, drought and heat tolerant.

COUNTRY GENTLEMAN 90 days

Ears: 6½-8", zigzag kernel pattern, mostly cylindrical with few slightly tapered, usually well filled tips; good husk covering of thin husks, with streamers; ear average 10 oz.

Kernels: Creamy or ivory white, deep, slender shoepeg shaped, good flavor, usually tender, best open pollinated variety in conditions of extreme heat or drought; used mostly in whole grain pack, but also in cream style.

Plants: 7-8', narrow leaved, usually dark green, slender stalk, fairly well rooted, very leafy fodder, usually few suckers.

EARLY COLUMBIA 72 days

Ears: 6-7½", medium large, slightly tapered, 8-14 rows, mostly 12-14 rows, straight rowed, fairly well filled tips, fair husk coverage; ears average 10 oz.

Kernels: Creamy white, medium to broad, medium depth, good flavor, fair to good quality.

Plants: 4½-5½', medium breadth leaves, medium to dark green, well rooted, few suckers, fair fodder development, shows some heat and drought tolerance.

EARLY CROSBY 80 days

Ears: 6-7", medium sized, cylindrical to slightly tapered, 8-14 rows, straight rowed, fair tips, usually protected with good husks; ears average 9½ oz.

Kernels: Snowy white, medium breadth, medium depth, uniform for variety, fair to good flavor, good quality.

Plants: 4½-5', narrow leaves, medium dark green, fair roots, susceptible to fusarium and smut when grown out of the northern corn areas, moderate to heavy suckering, fair fodder yield; stands drought better than humid weather.

EARLY EVERGREEN 90 days

Ears: 6½-8½", 12-16 rows, cylindrical to slightly tapered, straight rowed, moderately filled tips, fair to good husk covering; ears average 11 oz.

Kernels: Snowy or chalky white, broad, medium deep, type fairly uniform, good flavor, tender under favorable conditions of growth; used for cream style pack.

Plants: 7½-9', medium to dark green, broad leaved, usually stiff stalked, occasional suckers, heavy stalk.

GILL'S WHITE MARKET (EARLY WHITE MARKET) . . . 67 days

Ears: 6-7½", slightly tapered to tapered, 10-16 rows, straight rowed, mostly well filled tips, fair husk coverage; ears average 10 oz.

Kernels: Dull white, medium breadth, shallow to medium depth, fair to good quality; used as early market or home garden corn.

Plants: 4-5', medium breadth leaves, medium green, fairly well rooted, moderate suckering, fair to poor fodder yield.

HONEY JUNE 100 days

Ears: 8" long, large, tapered, 12-18 rows, tight fitting protruding husks.

Kernels: White.

Plants: 9' tall, highly resistant to ear worm. This is a southern variety.

IMPROVED HOWLING MOB (VANGUARD) 82 days

Ears: 6½-8", 12-16 rows, cylindrical to slightly tapered, mostly slightly tapered, straight rowed, usually well filled tips, good husk covering of heavy, coarse husks; ears average 11½ oz.

Kernels: Creamy white, broad, medium deep, fair flavor, usually tender.

Plants: 7½-8½', medium to dark green, broad leaved, heavy foliage, heavy stiff stalks, occasional suckers.

LONG ISLAND BEAUTY (LATE MAMMOTH, MAMMOTH SUGAR)

93 days

Ears: 7½-10", large, cylindrical to slightly tapered, 10-18 rows, straight rowed, moderately well filled tips, large cobbed, heavy husked; ears average 16¼ oz.

Kernels: Creamy white, variable breadth, shallow to medium depth, fair flavor, variable quality from fair to excellent; used as large eared, late market corn.

Plants: 8-9½', medium to broad leaves, dark green, moderately well rooted, occasional suckers, heavy yield of fodder.

LUTHER HILL 65-68 days

Ears: 3½-4", 8 rows, cylindrical, straight rowed, moderately well filled tips.

Kernels: White, wide, shallow, excellent flavor.

Plants: 3' tall, very slender, ears 4-6" from ground, dark green. A home garden novelty.

NARROW GRAIN EVERGREEN 94 days

Ears: 6½-8", 18-26 rows, with majority 20-22 rows, cylindrical with occasional slightly tapered ears, straight rowed, well filled tips, good to excellent husk covering; ears average 13½ oz.

Kernels: Creamy or ivory white, narrow, very deep, very uniform type, good flavor, usually tender; used for both cream style and whole kernel pack.

Plants: 7½-9', medium breadth to narrow leaved, dark green, medium stalk, fairly well rooted, occasional suckers, makes good fodder.

STOWELLS EVERGREEN, DEEP GRAINED 95 days

Ears: 7½-9½", 14-18 rows, cylindrical to slightly tapered ears, straight rowed, fairly well filled tips, good to excellent and heavy husk covering; ears average 16 oz.

Kernels: Creamy or ivory white, medium breadth, deep to very deep, distinctive semi-pointed crown in edible stage which becomes characteristic beak in dry seed, good flavor, tender; used in cream style and whole grain pack.

Plants: 8-9½', medium to broad leaved, medium to dark green, heavy stiff stalk, well rooted, few suckers, heavy yield of rather coarse fodder.

WHIPPLE'S EARLY WHITE 72 days

Ears: 6-7½", cylindrical to slightly tapered, 10-16 rows, straight rowed, moderately filled tips, heavy husk; ears average 12 oz. Old early white market type grown for large ear.

Kernels: White, variable breadth and depth, fair to good quality.

Plants: 5½-6½', medium to broad leaves, medium dark green, usually well rooted, moderate suckering, heavy yield of fodder for season.

WHITE EVERGREEN

Large, late EVERGREEN type used in the Midwest; characterized by bright snowy white kernel in prime milk stage in contrast to creamy or ivory white of other EVERGREEN strains.

ROASTING EAR OR GARDEN CORN

BLAND'S EXTRA EARLY

66-68 days

Ears: 6-7", cylindrical to slightly tapered, 10-14 rows, straight rowed, usually well filled tips, moderate husk coverage.

Kernels: Creamy white, medium breadth to broad, shallow to medium depth, fair flavor.

Plants: 5½-6½', medium breadth leaves, medium green, well rooted, fair fodder.

EXTRA EARLY ADAMS (EARLY BURLINGTON)

70-72 days

Ears: 6½-7½", slightly tapered, 10-14 rows, straight rowed, well filled tips, heavy husk coverage.

Kernels: Snow white, medium breadth and depth, fair flavor in prime milk, fair quality.

Plants: 4½-5½', medium to broad leaved, medium green, stocky, well rooted with extensive root system, rarely suckered, fair fodder yield.

LARGE EARLY ADAMS (IDEAL)

74 days

Ears: 7-8½", cylindrical to slightly tapered, 10-16 rows, otherwise same as EXTRA EARLY ADAMS.

Kernels: Same type as EXTRA EARLY ADAMS probably averaging a little deeper.

Plants: 5½-6½', otherwise same as EXTRA EARLY ADAMS.

SILVERMINE

85-87 days

Ears: 8-9", cylindrical, 12-16 rows, straight rowed, very well filled tips, fairly good husk coverage.

Kernels: Snowy white, medium breadth, medium depth to deep, fair flavor.

Plants: 8-9', medium to broad leaves, dark green, well rooted, rarely suckered; good at high altitudes and thrifty on low fertility levels, shows some drought tolerance.

TRUCKER'S FAVORITE (NORFOLK)

82-85 days

Ears: 8-9½", mostly cylindrical, 10-16 rows, straight rowed, usually well filled tips, good husk coverage.

Kernels: Ivory white, medium breadth, medium depth to deep, good flavor; one of the leading roasting ear varieties.

Plants: 8-9', many broad leaved, dark green, usually well rooted, occasionally suckered, vigorous, thrifty.

TRUCKER'S HYBRID A

85-87 days

Ears: 9½-10", cylindrical, well filled, 12-14-16 row, with very good husk coverage.

Kernels: Medium width, pearly white, in general very similar to TRUCKER's FAVORITE since inbred lines are of this origin. Good for grain production as well as roasting ears.

Plants: 7½-8', broad, very dark green leaves, excellent root system and few suckers.

POP CORN

GOLDEN HULLESS	80-85 days
Yellow kernelled strain of JAPANESE HULLESS.	
JAPANESE HULLESS (AUSTRALIAN HULLESS)	80-85 days
White, pointed, fine kernelled; short chunky ears often times "bear clawed" or fasciated at tip, usually 18 or more rows of kernels, many times broken rowed; highest popping volume of any variety giving very sweet and tender popped kernels.	
QUEEN'S GOLDEN (GOLDEN QUEEN)	85-90 days
Medium yellow, pearl kernelled; slender, medium large, straight rowed ears with 12-16 rows; vigorous plant, good yielder, fair to good popper.	
SOUTH AMERICAN (GIANT YELLOW, GOLDEN MUSHROOM, SOUTH AMERICAN MUSHROOM)	95-100 days
This variety of thick hulled flint corn from South America is at present the most popular variety because of heavy yield, wide adaptation and giant sized popped kernels. Dark yellow, pearl kernelled, long slender, large, straight rowed ears with 14-18 rows. Large, vigorous, dark green plant; fair to good popper.	
TOM THUMB	95-100 days
Distinctive, small, bushy, heavily suckered, dark green plant with profusion of "thumb-sized" ears having 10-16 straight rows of fine, pointed, bright golden yellow kernels; excellent popper, low yield because of small size of ears. There is also a white kernelled strain of this variety.	

WHITE RICE	90-95 days
Satin, translucent white pointed kernels; slender, slightly tapered, medium large, straight rowed ears with 10-16 rows; vigorous plants, good yielder; fair to good popper.	

CORN SALAD

Valerianella olitoria

LARGE SEEDED DUTCH	60-65 days
Large, rounded thick leaves of silvery green color, forming rosette growth; used as substitute for lettuce in salads or may be cooked like spinach.	

CRESS

CURLED (PEPPER GRASS)	<i>Lepidium sativum</i>	45-50 days
Hardy, rapidly growing annual with finely cut and curled deep green foliage; used for garnishing because of pleasant spicy flavor.		

TRUE WATER	<i>Roripa naturitum aquatica</i>	180 days
Hardy, perennial aquatic plant producing small thick bright green leaves on long, slender stem. Prized for salads and garnishing because of sharp, pungent flavor.		

UPLAND (SPRING, BROAD LEAVED)	<i>Barbara verna</i>	45-50 days
Dwarf plant producing small, notched, oval shaped leaves about 2" long. Very mild flavor. Used in salads.		

C U C U M B E R

Cucumis sativus

BLACK SPINED VARIETIES

BOSTON PICKLING (GREEN PROLIFIC) 58-60 days

Fruits: 2-2½ x 6-7" when mature for seed; pickles are medium green, slightly tapered. Not as uniform a crop as NATIONAL PICKLING.

CHICAGO PICKLING (WESTERFIELD) 59-62 days

Fruits: 2¼-2½ x 6-7" when mature for seed. Fruits slightly bulging in middle at maturity, but pickles are uniform, cylindrical, medium green and square ended. This strain is very prolific and heavily spined at pickling stage.

DAVIS BLEND 54-56 days

Fruits: 2-2½ x 6-7" when mature for seed. Pickles are dark green, cylindrical, blocky ends. Very vigorous and high yielding. Exceptionally popular with pickle packers because the growers like the yield.

EARLY CLUSTER 55-58 days

Fruits: 2½-2¾ x 5-5¾" when mature for seed; pickles are medium green, cylindrical, square at both ends; produces uniform set early and is popular for early slicing as well as for pickling.

IMPROVED LONG GREEN (LONDON) 66-69 days

Fruits: 2½-2¾ x 10-12", long, cylindrical, rounded stem end and abruptly tapered tip, cross section varies from circular to triangular; medium dark green with sparse striping at tip; thick, firm, crisp, flesh with small to medium seed cavity.

JAPANESE CLIMBING 65-70 days

Fruits: 2-2½ x 7-8", cylindrical, rounded at both ends, circular cross section; medium to light green, medium to large seed cavity, thin to medium thick flesh; fair quality. Chiefly a novelty because of its distinctive climbing habit.

JERSEY PICKLING 59-62 days

Fruits: 2-2½ x 6-8" when mature for seed; pickles are medium green, slightly tapered at both ends, slender and fairly uniform.

LEMON 64-68 days

Fruits: 2-2½ x 3-3½", triangular to quadrangular with square ends, distinctive bright yellow color all during development of fruit, large seed cavity, flesh not too thick. Considered very good for slicing and salads. Also used for pickles.

MAINE NO 2 54-56 days

Fruits: 2-2½ x 6-7" when mature for seed; pickles are light green, inclined to be pointed at both ends. Blocky in middle tapering to both ends. Similar in quality to BOSTON PICKLING. High quality fruit, and very productive vine. An attempt to combine pickling qualities with slicing qualities. Scab-resistant.

NATIONAL PICKLING 54-56 days

Fruits: 2-2½ x 6½" when mature for seed; pickles are dark green, cylindrical, blocky ends which are retained through all stages of growth; similar in type to SNOW'S PICKLING, but a more symmetrical, uniform strain, making best of all-around pickles. This variety was originally developed by the National Pickle Packers' Ass'n.

SNOW'S PERFECTED PICKLING 54-57 days

Fruits: 2¼-2½ x 5-5½" when mature for seed; pickles are dark green, cylindrical; blocky at both ends, even when very small; extremely productive, with crop maturing uniformly; excellent quality.

WHITE WONDER 60-65 days

Fruits: 2½-2¾ x 6-7", medium long oval, with rounded ends, cross section varies from circular to triangular, ivory to creamy yellow with spines varying black to brown, medium sized cavity with medium thick flesh, crisp, very mild, pale ivory; used in salads and as novelty.

WHITE SPINED VARIETIES**A & C** 66-68 days

Fruits: 2-2½ x 8½-10", slight taper at both ends, very dark green with indistinct starring at blossom ends, slender, cylindrical, almost round in cross section, small seed cavity, holds color exceptionally well.

ACE 65-68 days

Fruits: 2¼-2¾ x 9-11", rounded at ends, dark green with trace of light green around blossom scar, almost round in cross section; very small seed cavity, firm, crisp flesh; holds color making this a remarkable marketing and shipping strain.

CHINESE LONG (JUMBO) 75-80 days

Fruits: 2-2½ x 14-20", long slender shape with long taper at stem end and rounded at blossom end, round in cross section, apple green or medium green, small to medium seed cavity. Chief value of this variety is its high resistance to mosaic which almost amounts to immunity. We grow our own strain of this and are continually selecting for choice types and productiveness and checking for mosaic resistance.

COLORADO ALL-AMERICA ~~AW~~ SELECTIONS Silver Medal 1935 66-68 days

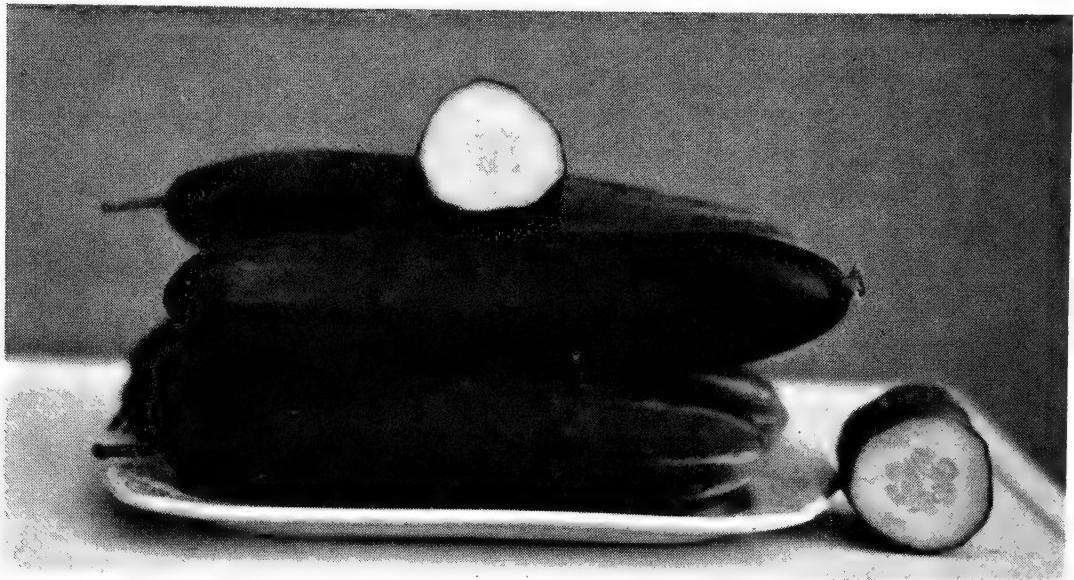
Fruits: 2-2½ x 8½-10", slight taper at both ends, very dark green with indistinct starring at blossom ends, slender, cylindrical, almost round in cross section, small seed cavity, holds color exceptionally well.

CUBIT Bronze Medal 1944 66 days

Fruits: 2-2¼ x 9-9½" long, blunt-ended, cylindrical. Uniform color and texture. Smooth, crisp, with small seed cavity. It is distinguished by a very dark green skin. Well adapted for fresh market and shipping.

DAVIS PERFECT 64-68 days

Fruits: 2-2¼ x 8-10", fusiform or long taper from large diameter at center toward both ends, cross section bulging triangular, color dark green with prominent light green stripes at tip, good quality. Old strain and parent many present day varieties.



WOODRUFF'S ACE

EARLIEST OF ALL

59-63 days

Fruits: $2\frac{1}{2}$ - $2\frac{3}{4}$ x 7-8" when mature for seed; cylindrical, with short, rather abrupt taper at both ends, medium dark green, productive and fairly uniform setting; color does not hold well. Used by few for pickles, but mainly used for early shipper in South.

IMPROVED WHITE SPINE (ARLINGTON WHITE SPINE) 58-62 days

Fruits: $2\frac{1}{2}$ - $2\frac{3}{4}$ x $7\frac{1}{2}$ -8", medium long, carrying long, slight taper through entire length with rounded ends; cross section varies from circular at stem end to triangular at tip; medium green with distinct striping on tip one-third of length; medium to large cavity with thin to medium flesh; good flavor and quality. One of the oldest popular strains because of earliness and productivity.

KLONDIKE

62-65 days

Fruits: $2\frac{1}{2}$ -3 x 7-8", cylindrical with square to rounded ends, variable circular to triangular cross section, very dark green with light green stripes at tip; medium seed cavity and medium thick flesh; good quality. Used for shipper in some sections.

LONGFELLOW (VAUGHAN, WINDMOOR WONDER)

70-75 days

Fruits: $2\frac{1}{2}$ - $2\frac{3}{4}$ x 12-16", long, cylindrical with round ends, very dark green and color held well during shipment, circular cross section, moderately thick, good quality flesh with small seed cavity. Very good shipper.

MARKETER

ALL-AMERICA SELECTIONS

Bronze Medal 1943

65 days

Fruits: $2\frac{1}{4}$ x $7\frac{1}{2}$ -8", dark green, slightly tapered ends. An early cucumber with long bearing season, well adapted to fresh marketing.

PALMETTO

66 days

Fruits: 2 - $2\frac{1}{2}$ x 8-9", similar to CUBIT though slightly more pointed at the ends. Attractive dark green with indistinct striping at blossom end, small seed cavity, good flavor and flesh color. Fairly resistant to downy mildew.

PUERTO RICO NO. 39 65 days

Fruits: 7½-8" long, very smooth, dark green and lustrous, cylindrical. No "star" or stripes, flesh has slight greenish tinge. It is resistant to mildew and will often produce fruit in cool wet weather when other varieties fail.

STAYS GREEN (ALWAYS GREEN, BLACK DIAMOND, KIRBY, IT STAYS GREEN) 59-62 days

Fruits: 2¾-2½ x 7-8", very dark green, with few thin stripes at tip, cylindrical, with nearly square ends, very fleshy and good quality; retains color well.

STAYS GREEN, LONG STRAIN 59-62 days

Fruits: This is long fruited, darker green selection from standard STAYS GREEN, having fruits 2-2½ x 8-9" and practically no light color at tip.

STRAIGHT EIGHT ALL-AMERICA SELECTIONS Gold Medal 1935 64-68 days

Fruits: 2-2¼ x 7½-8½", cylindrical, uniform, rounded blunt ends, circular cross section, dark green over entire surface, small seed cavity and medium thick to thick flesh; good quality and attractive. Early and highly productive.

WEST INDIA (BURR GHERKIN, PRICKLY) *Cucumis anguria* 59-62 days

Fruits: 1-1½ x 1½-2" when mature; excellent pickles when used very young; mature fruits are thin fleshed and filled with seed; young pickles are pale to medium green, small, oval, very heavily spined and used for melon pickles.

WOODRUFF'S HYBRID (CLARK'S SPECIAL, EARLY FORTUNE) 60-64 days

Fruits: 2½-2¾ x 8-10", cylindrical with rounded ends, almost round in cross section, small seed cavity, medium dark green, thin light green stripes at blossom end; tender and crisp, superior quality.

DANDELION

Taraxacum officinale

ARLINGTON THICK LEAVED

Plants: Semi-upright, 14-18" in diameter, vigorous, glossy dark green, very leafy and productive.

Leaves: Large, broad, partially toothed, thick and easily blanched, giving fairly tender greens. Pink ribbed.

COMMON FRENCH

Plants: Sprawling, 15-20" in diameter, prolific, medium dark green.

Leaves: Long, broad, only partially toothed, thin to medium thick.

DILL

Anethum graveolens

COMMON

Plants: 1½-2' tall, cut leaves similar to LONG ISLAND MAMMOTH. Not as vigorous or as prolific as LONG ISLAND MAMMOTH.

Seed: Same as LONG ISLAND MAMMOTH.

LONG ISLAND MAMMOTH

Plants: 2-2½' tall, extremely cut leaves, making leaves composed only of skeletal tissue.

Seed: Very flat, brown, with strong, bitter flavor; borne in umbels which branch from entire plant; used as flavoring in pickles.

E G G P L A N T

Solanum melongena

BLACK BEAUTY 80-85 days

Plants: 24-30", erect, compact, large leaved; bear 4-6 fruit.

Fruits: Very dark purple, globular to blunt egg shaped, smooth, glossy, fairly uniform; have good retention of color after picking.

EXTRA EARLY LONG PURPLE 75-80 days

Plants: 20-24", semi-erect, branching, chiefly used as early market type, bear 5-7 fruits; medium sized clustered leaves.

Fruits: Dark purple to dark bluish purple, long, slender pyriform, fairly smooth, good quality.

FLORIDA HIGH BUSH 85-90 days

Plants: 30-40" tall, very erect, heavy stemmed, holding fruit well above ground, long obovate leaf; bear 2-6 fruits.

Fruits: Dark purple, elongated egg shape tapering gradually to stem end, smooth, moderately variable in color and size; good shipping variety.

FORT MYERS MARKET 85-90 days

Plants: 30-36", erect, strong stemmed, fruits borne well above ground; productive over long period and very vigorous, being highly resistant to disease; bear 4-6 fruits.

Fruits: Bell shaped, 5-6" by 6½-8", very deep purple. Smooth and rarely lobed.

MANATEE SPECIAL 87-92 days

Plants: 34-40" tall, erect, bearing fruit high; large leaves giving good protection; bear 2-4 fruits.

Fruits: Dark purple, long egg shape, smooth, fairly uniform size and color; used for southern shipping.

NEW HAMPSHIRE HYBRIDALL-AMERICA  SELECTIONS

Silver Medal 1939

68-73 days

Plants: Earliest strain; developed by Prof. J. R. Hepler of the New Hampshire Station, 12-16" tall, spreading, heavily branched, medium sized leaves; bear 5-8 fruits; very productive.

Fruits: Dark purple, blocky egg shape, smooth, glossy, uniform producer; excellent northern variety for home garden or local market.

NEW YORK SPINELESS (IMPROVED LONG PURPLE)

85-90 days

Plants: 30-36" tall, large, erect, compact, branched, large leaved, bear 4-6 fruits.

Fruits: Deep purple, broad oval to blunt egg shape, smooth, uniform, very good quality; leading home garden and market type.

ENDIVE*Cichorium endivia***FULL HEART BATAVIAN**ALL-AMERICA  SELECTIONS

Silver Medal 1934 85-90 days

Plants: Large, leaves broad, partially curled, deep compact head, blanches easily. More vigorous, earlier and more uniform strain than old BROAD LEAVED BATAVIAN. This is the escarole of commerce.

GREEN CURLED RED RIBBED (PANCALIER)

96-100 days

Plants: Large, late, coarsely toothed variety similar to RUFFEC, but with midrib rose tinted and foliage darker shade of green.

RUFFEC (GREEN CURLED WHITE RIBBED)

94-97 days

Plant: Large, spreading, dense growth of long toothed outer leaves and thick, upright full tuft of small leaves in center which can be bleached readily. Midribs are white, broad, thick, and tender.

RUFFEC

95 days

Plant: Hardy circular plants close to a foot and a half in diameter. Requires good rich soil. The dark green curly leaves are finely cut, the rib white.

WHITE CURLED

96-100 days

Plants: Plant type similar to RUFFEC, but pale green, more finely cut and curled, and smaller, blanches easily to creamy white heart.

FENNEL*Foeniculum dulce***FLORENCE (ITALIAN, FINNOCHIO)**

Plants: 28-30" tall; compact, flattened and folded leaf petioles form celery-like bunch above a bulb-like enlargement at base of petioles which is used like celery or for seasoning soups; sweet, anise flavored.

LARGE SWEET (See "HERBS").

HERBS

CULINARY, MEDICINAL AND AROMATIC

A—Annual

B—Biennial

P—Perennial

Herbs are the oldest continually grown group of cultivated plants and are again becoming popular in home gardens. The following list gives some of those which are more popular in this country and is by no means a complete list. We have drawn freely from the following reference material in compiling this group of modern herbs: Clarkson, Rosetta E., 1939, Magic Gardens, XVIII + 370 pp., Macmillan Co., New York, N. Y., and Kamm, Minnie Watson, 1938, Old Time Herbs for Modern Gardens, XI + 256 pp., Little, Brown and Co., Boston, Mass.

ANGELICA *Angelica archangelica* B, P

Stems and stalks used as vegetable or candied, seeds used for liquor flavoring and roots as medicinal; white flowered plant; biennial behaving like perennial if all flower heads are cut off.

ANISE *Pimpinella anisum* A

Plants 14-18" tall, creamy or lemony white blossoms; roots and leaves are celery-like; seeds used in baking and leaves for garnish or in cordials. Not the same as FLORENCE FENNEL which is sometimes called SWEET ANISE. Do not transplant.

BALM (LEMON BALM) *Melissa officinalis* P

Low growing plant with fragrant, lemon scented leaves which are used in medicinal teas and for flavoring liquors; also grown for oil valued in perfume.

BASIL, SWEET *Ocimum basilicum* A

Purple flowered plants 12-18" tall; light yellow green, clove flavored, highly aromatic foliage is excellent for seasoning omelets or soups and as garnish for salads; oil used in perfumes; this is the popular BASILICO NAPOLITANO of the Italians.

BASIL, ITALIAN *Ocimum crispum* A

Similar to SWEET BASIL but has coarser foliage with large, crinkly leaves.

BORAGE *Borago officinalis* A

Hardy, fuzzy, much branched, coarse, sprawling plants 15-22" tall; violet, star shaped flowers prolifically borne give aromatic flavor to drinks; small tender leaves having cucumber-like flavor used for potherb, seasoning and garnishing; excellent bee plant.

BURNET *Poterium sanguisorba* P

Excellent for salads, sometimes used for soups having flavor resembling cucumber; decorative in the garden.

CARAWAY *Carum carvi* B

Carrot like foliage grows 18-24" tall in second year bearing white flowers and seed in umbels; seed used for seasoning bread, confectionery, condiments and meats as well as for volatile oils.

CATNIP (CATMINT) *Nepeta cataria* P

Fuzzy leaved hardy plant grows in clumps 2-3' tall; blooms with prolific clusters of small blue flowers from midsummer to frost making excellent bee plant; dried leaves used for tea; name comes from attractiveness of plants to cats.

CHAMOMILE, GERMAN *Matricaria chamomilla* A

Small plant with coarse, rich green foliage which is cut and rolled for fragrant paths.

CHAMOMILE, TRUE or ROMAN *Anthemis nobilis* A

Plants with small, daisy-like, yellow and white flowers used for tea, hair wash, and medicinal.

CLARY *Salvia sclarea* P

Plants 3-4' tall usually mauve flowered although some varieties are yellow and white; grown for decorative effect as well as for use in teas and omelets; has heavy camphor odor.

CORIANDER *Coriandrum sativum* A

Plants hardy, 2-2½' tall with white flowers and finely cut foliage; seeds used in bakery, confectionery and beverage flavors; foliage has slightly disagreeable odor.

CUMIN *Cuminum cyminum* A

Seeds used in curry powder and as seasoning in cheese and Kümmel; hard to raise unless seeds are fresh.

HOREHOUND *Marrubium vulgare* P

Hardy, branched, sprawling, strongly aromatic plants about 2' tall; woolly grayish leaves used for seasoning and oils used in flavoring candy and medicines.

HYSSOP *Hyssopus officinalis* P

Hardy, shrubby plants 12-18" tall having aroma and warm pungent taste; leaf extract used as tonic, stimulant and in perfumes; leaves used for salads and for flavoring omelets; makes fine low hedge having rich purple flowers.

LAVENDER, SPIKE *Lavendula spica* P

Half hardy plants 2-2½' tall, erect, bushy; used the same as TRUE LAVENDER; widely used because of heavy yield of volatile oil.

LAVENDER, TRUE *Lavendula vera* P

Hardy plants 12-16" tall, compact, bushy; lilac blue flowers used in sachets and in perfumes; young leaves and tender stalks sometimes used in salads. Seed germinates very slowly.

LOVAGE *Levisticum officinale* P

Attractive tall plant suitable for shady border; young stems blanched and used in confectionery with flavor resembling celery.

MARJORAM, SWEET or KNOTTED *Origanum marjorana* A

Tender, bushy plants 18-24" tall; aromatic and pungent, young leaves used in soups, salads, omelets and poultry stuffing; slow germinating.

MUGWORT	<i>Artemisia vulgaris</i>	P
	Yellow flowered plants with fragrant foliage grows about 3' tall and is used as a tonic.	
PENNYROYAL, ENGLISH	<i>Mentha pulegium</i>	P
	Low growing plants with lilac flower; leaves used in teas and puddings; also the medicinal used in menthol pencils and headache cures.	
PENNYROYAL, AMERICAN	<i>Hedeoma pulegioides</i>	P
	Upright plants with narrow, fragile light green leaves; uses are similar to ENGLISH PENNYROYAL.	
PURSLANE	<i>Portulaca saxifraga</i>	A
	Spreading, tender, fleshy stemmed, small leaved, rapidly growing plants used in salads or cooked as "greens"; has mild acrid flavor.	
RAMPION	<i>Campanula rapunculus</i>	P
	Leaves and fleshy roots used in salads; lavender, bell shaped flowers.	
ROQUETTE (ROCKET)	<i>Barbarea vulgaris</i>	A
	Hardy plants with dull green, thick, pungent, strongly flavored leaves used for "greens."	
ROSEMARY	<i>Rosemarinus officinalis</i>	P
	Plant 2-3', tall with dark, very glossy green foliage and tiny light blue flowers; spicy nutmeg aroma and warm balsam taste; leaves used as seasoning in meats and soups and the extracted oils of the blossoms are used in toilet waters.	
RUE	<i>Ruta graveolus</i>	P
	Hardy bushy plants 18-24" tall having disagreeable odor and bitter acrid flavor; used in medicines, beverages and as seasoning for vinegar; bluish green, lacy leaves and yellow blossoms.	
RUSSIAN TARRAGON	<i>Artemisia sacrorum</i>	A
	This annual form grown in Russia is easily grown from seed and gives same flavor as TRUE TARRAGON. <i>A. annua</i> , AMBROSIA, also a fragrant annual which is self sowing.	
SAFFRON, AMERICAN (SAFFLOWER)	<i>Carthamus tinctorius</i>	A
	Plants: 1½ -3' tall, erect, branched, woody stemmed, profusely flowering with orange yellow thistle-like blossoms which are used for silk dyes, cosmetics, and food coloring; oil pressed from seed used like olive oil; leaves used for flavoring.	
SAGE, BROAD LEAF	<i>Salvia officinalis</i>	P
	Plants 12-16" tall, hardy, spreading, silvery gray green foliage; has pleasant aromatic odor and mildly pungent flavor; most commonly used of all the herbs; used in sausage, cheese, dressings, and teas; salviol oil counteracts effects of fatty foods.	

SPEARMINT (OLD FASHIONED MINT) *Mentha viridis* P

Plants 15-20" tall spread rapidly by rhizomes; tips of branches used in salads, sauces and juleps.

SUMMER SAVORY (BOHNENKRAUT) *Satureia hortensis* . . . A

Hardy plants 10-18" tall, bushy, small leaved, tiny purple and white blossoms, decorative border plant; entire plant aromatic and when dried is used for seasoning dressings, soups, salads, and teas.

SWEET FENNEL *Foeniculum vulgare* P

Usually treated as annual growing about 3' tall with finely cut leaves; used in salads and teas; seed used in flavoring confections and medicines; young shoots of perennial growth used in soups and fish sauces.

SWEET WOODRUFF (WALDMEISTER) *Asperula odorata* . . . P

Shade lover about 8" tall, sometimes used for carpeting shady spots; used in beverages and wines; has sweet scented, star-like leaves.

TARRAGON, TRUE or FRENCH *Artemisia dracunculus* P

Long narrow leaves with anise taste are used in salads or meats and for flavoring in vinegar; will not grow from seed. See also RUSSIAN TARRAGON.

THYME, ENGLISH (WINTER BROAD LEAVED) *Thymus vulgaris* . P

Hardy plants 10-12" tall, made decorative perennial border with small lilac blue flowers; used in seasoning and flavoring omelets, soups, salads, stuffing and medicinal teas.

THYME, FRENCH (COMMON, NARROW LEAVED) *Thymus vulgaris* P

Similar to ENGLISH THYME but with narrow leaved, gray green foliage and more sprawling growth.

WINTER SAVORY *Satureia montana* P

Similar to SUMMER SAVORY. Plant about 15" high. The leaves are used for seasonings.

WORMWOOD *Artemisia absinthium* P

Hardy plants producing branching growth 3-4' tall in second year, fragrant spicy odor and disagreeably bitter flavor; used in medicines and liquors.

KALE

Brassica oleracea var. *acephala*

BLUE SCOTCH (DWARF BLUE CURLED SCOTCH) . . . 55-60 days

Very hardy; plants 12-14" high and 20-28" spread; compact, thick leaf set; leaves are heavily curled, plume-like, blue green, thick and of good flavor and quality. This hardy variety used in late fall and early spring for delicious greens.

DWARF GREEN CURLED SCOTCH (NORFOLK, DARK GREEN MOSS CURLED) 55-60 days

Very similar to BLUE SCOTCH but foliage is deep yellowish green, which may fade on exposure to cold weather. Equally productive with BLUE SCOTCH where cold hardiness is not a factor.

DWARF SIBERIAN (PHILADELPHIA DWARF GERMAN, GERMAN SPROUTS) 60-65 days

12-14" tall by 24-30" wide, vigorous, sprawling plant, bearing coarsely serrate slightly savoyed, large leaves; deep green with bluish tinge. Makes larger spread of plant than BLUE SCOTCH, but not as compact or dense leaved.

EARLY SPROUTS

DWARF SIBERIAN type selected for rapid early spring growth to hit the early market with good quality greens.

LATE SPROUTS

DWARF SIBERIAN type selected for heavy yield and excellent delayed bolting. This variety extends the market season about 3 weeks.

TALL SCOTCH 85-90 days

Tall, erect, heavily leaved plants, 24-30" high, bearing heavily curled or plume-like leaves of bright medium green color. Very tender after being frosted.

K O H L R A B I

Brassica caulorapa

PURPLE VIENNA, EARLY 59-63 days

Small, purple leaved plant with globular purple bulb, flesh tender, crisp, white and flavorful.

WHITE VIENNA, EARLY 55-60 days

Similar to PURPLE VIENNA, but bulbs are pale green, almost white, and foliage is pale green.

L E E K

Allium porrum

AMERICAN FLAG (LONDON FLAG) 140-155 days

Popular strain, having long, thick, stem with large medium green drooping leaves, stems 1-1½" thick and 7-10" long.

BLUE LEAF

Similar to AMERICAN FLAG but leaves broader at base, deeper bluish green. Stems 1¼-1¾" thick, slightly bulbous at base with blanch of 6-8".

CARENTAN (MONSTROUS CARENTAN or WINTER) 150-165 days

Very thick, shorter stemmed strain, having deep blue green, more erect leaves, productive type and also more hardy at low temperature, stems 2-2½" thick and 5½-7½" long.

MUSSELBURG (GIANT MUSSELBURG) 145-160 days

Long, thick, white stemmed with drooping, bright, medium green leaves; similar to AMERICAN FLAG, but longer stemmed. Stems 1-1½" thick and 9-10" long.

LETTUCE

Lactuca sativa var. *capitata*

w.s indicates "white seeded."

b.s. indicates "black seeded."

BUTTER HEADING VARIETIES

BIBB (CHILDS HALF CENTURY) b.s. 58-60 days

Heads: Butter head, small loosely folded, dark green, outer leaves tinged with brown. It bolts readily in hot weather so it should be planted early. Popular in the South, and as a forcing strain in the Middle West.

BIG BOSTON (TROCADERO) w.s. 74-77 days

Heads: Medium size, compact, oblate to globular; outer leaves light green, glossy, only slightly crumpled, margins lightly bronzed; interior light golden yellow, excellent quality; dependable header under drought and heat; much used for cold frame forcing, as well as outdoors.

BLACK SEEDED BIG BOSTON b.s. 75-78 days

Heads: One of our specialties; similar type to BIG BOSTON, but develops larger, firmer heads and is black seeded.

CALIFORNIA CREAM BUTTER b.s. 76-80 days

Heads: Large, solid, with dark green, large outer leaves which are brown tinged; interior crisp, bright yellow. Local market type.

CRISP AS ICE b.s. 75-78 days

Heads: Medium sized, fairly solid, round; outer leaves thick, dark green under bronze, crumpled; interior creamy white, tender, pleasing flavor. Home garden and local market type.

MAY KING w.s. 62-65 days

Heads: Very early, small firm, round; outer leaves light green with bronze tinging, fairly smooth; interior golden yellow, buttery flavor, crisp. Used for forcing or earliest outdoor planting. Scalds easily under mid-summer conditions.

MIGNONETTE b.s. 65-67 days

Heads: Medium small, compact, hard, globular; outer leaves brownish with bronze cast, much crumpled and frilled; interior good quality, almost white. Primarily a home garden variety.

OAK LEAF (DEER TONGUE) w.s. 40-43 days

Heads: Indefinite head, cabbage butter type, light green, medium size, leaves deeply lobed like large oak leaves, tender, resistant to heat. It is an old variety with returning popularity.

TENNISBALL BLACK SEEDED (ALL YEAR ROUND, SALAMANDER)

b.s. 70-73 days

Heads: Medium size, round and solid; outer leaves medium green, crumpled without bronzing; interior crisp, creamy color, sweet flavor. Dependable header and popular.



WHITE BOSTON

WAYAHEAD w.s. 62-66 days

Heads: Small, medium green, firm; outer leaves medium green, crumpled and puckered, small; interior tender, creamy yellow, good quality. Early home garden type.

WHITE BOSTON (UNRIVALLED) w.s. 73-76 days

Heads: Similar to BIG BOSTON but pale green with no trace of bronzing; interior green tinged creamy, tender, sweet. Very desirable local market strain.

CRISP or CABBAGE HEADING VARIETIES

GREAT LAKES w.s. ALL-AMERICA SELECTIONS Bronze Medal 1944 . 82 days

Heads: Large, vigorous, solid dark green, glossy and well folded, ribs rounded and medium large.

It was developed by Michigan State College and the U.S.D.A., and is slow bolting and resistant to tip burn. Profitably grown in areas where conditions are unfavorable for other heading lettuce.

HANSON IMPROVED w.s. 80-83 days

Heads: Large, globular, compact, light green; outer leaves yellow green, broad, thick curled; interior crisp, clear white, sweet. Favorite home garden and local market type.

ICEBERG w.s. 82-85 days

Heads: Large, broad, well folded, firm oblate to globular; outer leaves light green with wavy bronzed edges, crumpled; interior crisp, very sweet, green-tinged white. Choice home garden and local market strain showing some heat tolerance.

IMPERIAL NO. 44 (NEW YORK NO. 44) w.s. . . 80-83 days

Heads: Medium large, hard, well formed, globular; outer leaves medium green, tightly folded, crumpled, very large; interior good quality, very crisp, white. Valuable in South and East because of heat tolerance and resistance to tip-burn; also good header on muck and peat.

IMPERIAL NO. 55 w.s. ALL-AMERICA SELECTIONS Honorable Mention 1942

70-72 days

Heads: Sure heading both in summer and early fall. Crisp and good quality, resistant to tip burn.



PREMIER GREAT LAKES

IMPERIAL NO. 152 w.s. 82-85 days

Heads: Medium large, firm, round, rather exposed, slightly crumpled; outer leaves large, spreading, medium light green; interior crisp, translucent white, tender; resistant to brown blight but fairly susceptible to tip-burn, dependable header. Good shipper. West Coast counterpart of IMPERIAL NO. 44.

IMPERIAL NO. 456 (NEW YORK NO. 456) w.s. . . 80-82 days

Heads: Large, solid, ribby, dark green, resists tip burn. Produces hard heads during periods of high temperature. Developed by Cornell University and the U.S.D.A.

IMPERIAL NO. 515 w.s. 74-75 days

Heads: Medium large, solid, crisp, dark green, similar to NEW YORK NO. 12 though heads are more conical in shape, and slightly earlier. It is resistant to tip burn.

IMPERIAL NO. 615 w.s. 83-86 days

Heads: Very large, well folded, firm, mostly globular; outer leaves large, coarse, spreading, silvery green, only slightly crumpled; interior crisp, juicy, white.

Developed as large heading strain from IMPERIAL NO. 152 and has same habit of growth, disease resistance and shipping ability.

IMPERIAL NO. 847 b.s. 83-86 days

Heads: Medium large, solid, round to oval, well covered, attractive, crumpled; outer leaves large, thick, fairly smooth, pale to medium green; interior tender, crisp, green tinted white; widest adaptation of IMPERIAL strains, being more tip burn resistant and dependable header; resistant to brown blight. Valuable home garden, local market and shipping strain.

IMPERIAL NO. 850 w.s. 84-87 days

Heads: Very similar to IMPERIAL NO. 847, to which it is related; could be called the white seeded counterpart of IMPERIAL NO. 847; may be more resistant to tip burn.

NEW YORK (WONDERFUL, LOS ANGELES) w.s. . . 80-83 days

Heads: Large, firm, oblate to round, tightly folded; outer leaves medium yellow green to medium green, large, broad, semi-spreading, edges curled and notched; interior crisp, well blanched to creamy yellow, sweet. Forerunner of the shipping strains of NEW YORK and IMPERIAL type.

NEW YORK NO. 12 (NO. 12 EARLY MOUNTAIN ICEBERG) w.s. . . 78-81 days

Heads: Early, sure heading, medium large, compact, oblate to nearly round, uniform, well covered, but leaves not as long as IMPERIAL strains; outer leaves medium size, medium green, slightly crumpled, semi-erect; interior crisp, white, thin leaved and tender; tolerant to heat. Local market strain.



WOODRUFF'S A-36

PENNLAKE w.s. ALL-AMERICA SELECTIONS Bronze Medal 1948 . . . 82 days
Heads: 5 x 5", globe shape, solid, crisp, some tip burn, very little slime.
Slow bolting, dark green, uniform.
Developed by Dr. M. T. Lewis, Penn. State College, State College,
Pennsylvania.

PREMIER GREAT LAKES w.s. ALL-AMERICA SELECTIONS Bronze Medal
1948 74 days
Heads: Large, uniform, compact, slow bolting, dark green leaves, leaves
folded well over top giving a high percentage of perfect heads.
Developed by Dr. M. T. Lewis, Penn. State College, State College,
Pennsylvania.

PROGRESS (USDA 2428) w.s. 80 days
Heads: Early, dark green, thick leaved, heavily savoyed, tip burn resis-
tant, crisp, good flavor, high quality.

ROHCO w.s. 85-90 days
Heads: 6½ x 5" deep, oblate, very dark green exterior, creamy white in-
side. Solid with small core. Large semi-spreading plant with excellent
covers to give adequate protection from sun-scald. Eastern trials in-
dicate this variety can be profitably handled as a very long standing,
late maturing variety for early summer market.

WOODRUFF'S A-36 w.s. 86 days

Plant: Medium to large diameter, large frame, short stem. Wrapper leaves protect the head from the sun. Foliage very dark green. Leaf size is large, with finely divided wavy edge and an exceedingly refined blister, lacking the coarseness of Great Lakes, Imperial 44 and 456.

Heads: 6½" wide x 6" deep. Outer head leaves are firmly attached in a way that reduces wrapper loss when cutting and trimming. Head is very solid, interior well blanched, medium size core. Good long distance shipper.

Tolerant of hot sun and showed no tipburn at Milford. Holds up well under wet weather conditions and is at least tolerant of bottom rot or leaf drop. Heads remain marketable long and do not burst nor develop brown midrib necrosis as does Great Lakes under adverse conditions. A field can be cut clean in two cuttings. The variety has a vigor that is lacking in many of the modern, closely inbred strains.

LOOSE LEAVED VARIETIES*Lactuca sativa var. crispa***BLACK SEED SIMPSON** b.s. 43-46 days

Plants: Similar in both plant and leaf type to WHITE SEEDED SIMPSON: usually shows more yellow-green over-all color. Plant mounds up in center to leave impression of greater height.

CHICKEN w.s.

Plants: Tall, leafy, prolific and hardy type, used for rabbit and poultry feed; dark green and continuous leaf producer, even while flowering.

GRAND RAPIDS b.s. 43-46 days

Plants: Very early, popular, forcing type, hardy and disease resistant, large, upright, compact, curly with large, broad, light green, crumpled, fringed and curly leaves.

GRAND RAPIDS U.S. NO. 1 b.s. 43 days

Plants: Similar to GRAND RAPIDS except the leaf margins are a little more deeply cut and heavily frilled, and a little lighter green color. It was developed by Dr. I. C. Jagger of the U.S.D.A., it is slow bolting and resistant to mildew.

PRIZEHEAD (BRONZEHEAD) w.s. 47-50 days

Plants: Rapid growing, medium size, tender, curled and fringed, leaves medium green with reddish bronze tint overlaid on all leaves exposed to light; very crisp.

SLOBOLT b.s. 45 days

Plants: Highly refined GRAND RAPIDS type plant, but smaller and longer standing under midsummer conditions. Our experience shows that U. S. NO. 1 has given better marketable lettuce in most cases.

WHITE SEDED SIMPSON (EARLY CURLED SILESIA, EARLY CURLED SIMPSON) W.S. 43-46 days

Plants: Early, large, compact, light green, with leaves forming tight bunch in center of rosette, leaves large, frilled and crumpled. Standard home garden variety.

ROMAINE or COS VARIETIES

DARK GREEN COS W.S. 65-70 days

Heads: Medium large, cylindrical with long tapered tip, well closed and solid; outer leaves very dark green, long, finely savoyed; interior creamy to golden yellow, crisp, with endive-like flavor.

EIFFEL TOWER COS W.S. 65 days

This is a tall, compact plant with well folded leaves. The head is more cylindrical, longer and darker green type than the usual cos. Interior greenish yellow, crisp, with excellent flavor.

PARIS WHITE COS (TRIANON, WHITE PARIS SELF FOLDING)

WS. 65-70 days

Heads: Similar type to DARK GREEN COS with medium to light green foliage which gives an interior of pale greenish white. Most popular variety of this type and widely used.



PART OF OUR LETTUCE TRIALS AT MILFORD.

MUSKMELON

see under CANTALOUPES and MUSKMELON

MUSTARD

Brassica juncea

CHINESE SMOOTH (ELEPHANT'S EAR, LARGE SMOOTH LEAF)

50-60 days

Plants: 18-24" in diameter, spreading, medium bolter, productive.

Leaves: Very large, broad oval, slightly puckered with scattered notching on margin, thin to medium thick, fairly tender, mild flavor, bright, medium green.

FLORIDA BROAD LEAF

50-60 days

Plants: 16-22" in diameter, spreading, slow bolting, fairly productive.

Leaves: Large, broad, oval, smooth with coarsely serrated margin and distinctive broad, flattened, greenish white midribs, thick, dark green with bluish tinge.

FORDHOOK FANCY (OSTRICH PLUME)

60-70 days

Plants: 15-18" in diameter, erect, compact, very slow bolting, bright, pale green, productive, resembles BLOOMSDALE LONG STANDING Spinach in plant habit.

Leaves: Deeply fringed and ruffled edges, heavily curled, long obovate when flattened, medium thick, tender, makes good quality greens and attractive salads, mild flavor.

GIANT SOUTHERN CURLED, LONG STANDING

Gold Medal 1935

ALL-AMERICA GARDEN SELECTIONS

60-70 days

Plants: 18-24" in diameter, semi-erect, very large, spreading, medium yellowish-green, very productive, very slow bolting.

Leaves: Large, long, oval to slightly obovate, deeply cut edge which is ruffled and curled, surface of leaf crumpled, thin to medium thick, fairly tender, mild flavor.

TENDERGREEN (MUSTARD SPINACH, KOMATSUMA) *B. perviridis*

45-55 days

Plants: 16-22" in diameter, semi-erect, rapid growing, glossy dark green, spreading, heat and drought resistant, very slow bolting.

Leaves: Large, spatulate, entire, partially dentate and notched, smooth surface, slender creamy white rib prominent, very mild flavored, supposed to have a "creamy mustard" flavor, medium thick and tender.

WHITE LONDON (YELLOW, WHITE ENGLISH) *Brassica alba*

Plants: Quick growing tall plant which bolts early, has medium sized, dark green, pungent leaves, which may be used for salads when young. Grown chiefly for seeds, which are ground for table mustard.

OKRA or GUMBO

Hibiscus esculentus

CLEMSON SPINELESS ALL-AMERICA SELECTIONS

Silver Medal 1939 50-55 days

Pods: 7-9 x 1½", rich green, straight, ridged, tapered at tip, entirely spineless, good quality, very uniform.

Plants: 4-4½' tall, type same as PERKINS MAMMOTH PODDED, but not as dense foliage, very prolific.

DWARF LONG PODDED (DWARF GREEN LONG POD)

50-55 days

Pods: 7-8 x 1-1½", dark green, slender, long, tapered at tip, fluted, good quality.

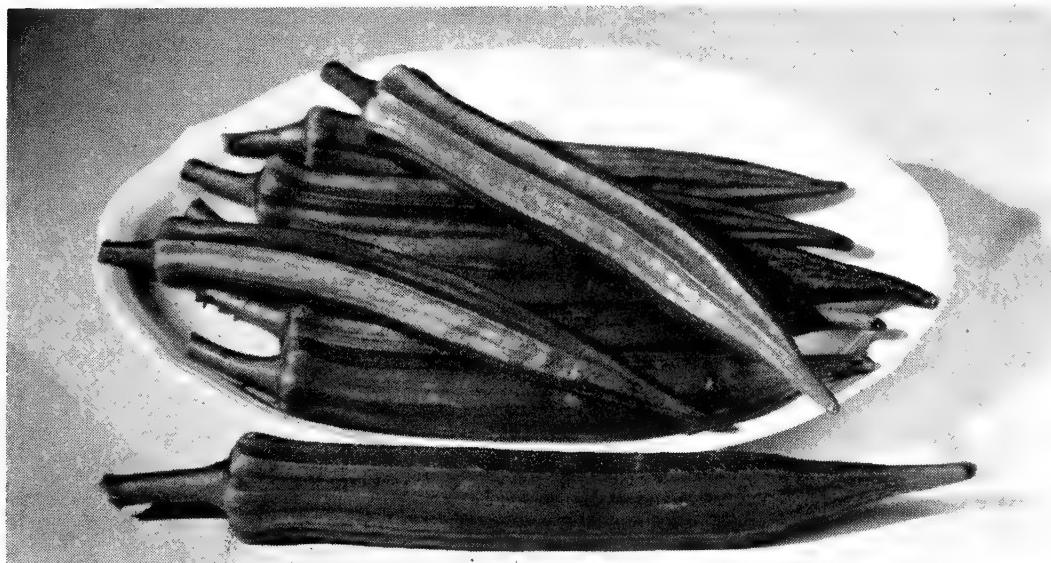
Plants: 2½-3' tall, erect, branched, productive.

DWARF LONG PODDED (CAMPBELL STRAIN) . . .

50-55 days

Pods: 7-8 x 1¼", very dark green, tapered at tip, only slightly ridged, spineless, excellent quality.

Plants: 2½-3' tall, leafy, only occasionally branched; pods set early and continue up stem for repeated pickings and very heavy yield.



DWARF LONG PODDED

LOUISIANA GREEN ALL-AMERICA SELECTIONS

Honorable Mention 1941

60-65 days

Pods: Developed by Dr. J. C. Miller of Louisiana Agricultural Experiment Station; 7-8 x 5/8-7/8", light green, long, slender, tapered throughout, slight fluting, spineless, very tender; well adapted to canning because of ability to hold green color and shape of rings when sliced.

Plants: 5-5½', tall, erect, pods borne close to stalks, extremely prolific, heavy yielder.

LOUISIANA WHITE VELVET (LADYFINGER)

An improvement over the older WHITE VELVET strain, because the pods are uniformly white.

PERKINS MAMMOTH PODDED

62-67 days

Pods: 7-8 x 1½", bright deep green, straight, slender, ribbed, tapered, fleshy, excellent quality, spined.

Plants: 3½-4¼' tall, heavy foliage, productive. Often attains a height of 6-7' when growing in the South.

WHITE VELVET

55-58 days

Pods: 6-7 x 1-1¼", creamy white, occasionally with green tint, straight, smooth, tapered, round, fleshy, tender, fine quality.

Plants: 3½-4½', tall, well foliated, prolific.

O N I O N

BULBING TYPES

Allium cepa

YELLOW VARIETIES

AILSA CRAIG

105 days

Similar to PRIZETAKER and YELLOW SWEET SPANISH. Popular in England, but not widely used in United States. Bulbs very large, oblong-globe, yellow tinged with bronze.

BRIGHAM YELLOW GLOBE (BRIGHAM STRAIN, SOUTHPORT YELLOW GLOBE)

110-115 days

Bulbs: Medium large, deep globe with rounded base, solid; skin dark yellow, very tough; flesh crisp, solid, clear white to creamy. Excellent storage onion very widely used in the Midwest.

EXCEL (YELLOW BERMUDA NO. 896)

ALL-AMERICA AWARD SELECTIONS

Honorable Mention 1948

72-78 days

Bulbs: A little deeper than standard Bermudas and considerably larger. Flesh is cream colored and very mild. Exceptionally productive and uniform. Almost free from bolters and doubles. Not supposed to be a good keeper. Valuable as a shipper, particularly in Texas, where extreme uniformity results in high yield.

Developed by the U.S.D.A. in cooperation with the California and Texas Experiment Stations.

GOLDEN MARVEL (GOLDEN GLOBE, BOTTLE NECK)

115-120 days

Bulbs: Medium large, bottlenecked globe or thick pyriform shape; skin dark golden, thick, tough; flesh creamy yellow, crisp, firm, mild. Very good storage or market type.

MOUNTAIN DANVERS (OREGON DANVERS) 108-112 days

Bulbs: Medium large, globular with flat base, very hard, making outstanding shipping and storage onion; skin clear deep yellow, thick, tough; flesh pale, creamy solid, mild flavored.

PRIZETAKER (DENIA) 105-110 days

Bulbs: Large globular; skin glossy straw color and thin; flesh fairly firm, mild and sweet, coarse textured. Grown in the South for early shipping.

SAN JOAQUIN 93 days

Bulbs: Large, semi-globe, straw yellow skin. Non bolting. Developed by the U.S.D.A. in conjunction with the California Experiment Station.

SOUTHPORT YELLOW GLOBE 115-120 days

Bulbs: Oldest yellow variety, medium large, deep globe, solid; skin bright straw color, thick; flesh yellowish white, fine grained, crisp, moderately pungent. Good storage onion.

TEXAS EARLY GRANO (YELLOW) 85-88 days

An early maturing variety adapted for fall planting in Texas and the Southwest. Recommended for its extreme earliness and resistance to thrips.

Bulbs: Medium size, top shape, light yellow, mild flavor. Not desirable for storage.

UTAH SWEET SPANISH 113-118 days

Bulbs: Selection from YELLOW SWEET SPANISH, showing better keeping quality; differs from YELLOW SWEET SPANISH in having amber skin and smaller neck.

VICTORY (JAPANESE, EBENEZER) 100-105 days

Bulbs: Medium size, thick flat to flat; skin dark yellow, thick, tough; flesh creamy yellow, crisp, sweet; very productive. Early marketing onion when grown from sets. Our strain is particularly adapted to long keeping sets.

WOODRUFF'S EARLY YELLOW GLOBE 95-100 days

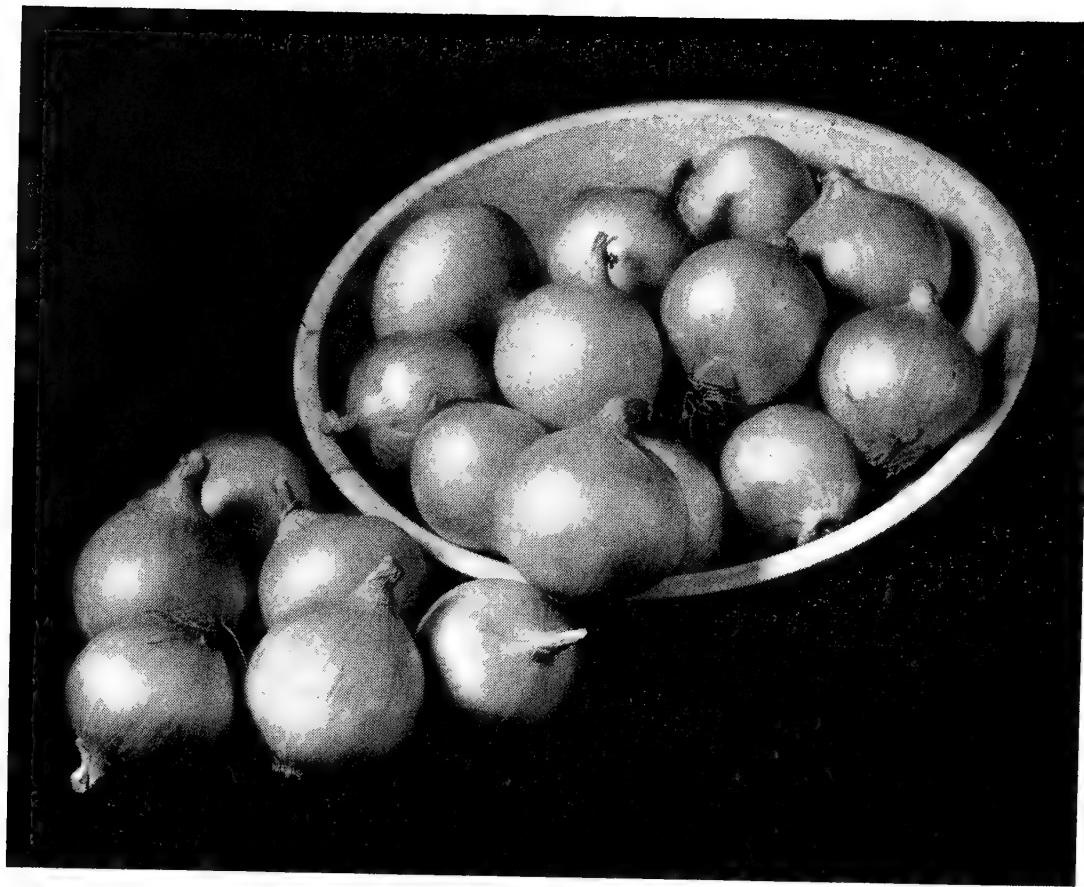
Bulbs: Medium large, globular to slightly flattened; skin deep yellow, thick; flesh creamy to green tinged cream, tender, sweet. Sure bulbing strain excellent for early market.

YELLOW BERMUDA (WHITE BERMUDA) 90-95 days

Bulbs: Medium sized, flat; skin thin, light straw; flesh creamy, very mild. Early market strain grown in Southwest.

YELLOW GLOBE DANVERS 105-110 days

Bulbs: Medium large, round; skin coppery yellow, medium thick; flesh firm, yellow tinted white, mildly pungent. Hardy, productive, good storage and shipping variety.



WOODRUFF'S EARLY YELLOW GLOBE

YELLOW SWEET SPANISH (VALENCIA)

Medal 1937

ALL-AMERICA  SELECTIONS

Silver

Bulbs: Large, globular, firm; skin bright yellow, medium thick; flesh crisp, creamy white, mildly pungent, juicy. Choice fall storage and shipping strain.

WHITE VARIETIES

CRYSTAL WAX (BERMUDA CRYSTAL WHITE WAX)

90-95 days

Bulbs: Medium size, flat, juicy, mild, crystal white. Used for shipping, but not suitable for storage. Grown for first early shipment in South.

CRYSTAL WAX L.690

Developed and released by the U.S.D.A. and the Texas Agricultural Experiment Station, jointly, this variety has no special resistance to insects and disease, but seems to have fewer doubles and bolters than present commercial strains, is free from "off colors," and matures a few days later than EXCEL.

In 1949, at 5 locations in Texas, this variety yielded 478 50-lb. bags of onions per acre, as compared with 557 bags by EXCEL.

SOUTHPORT WHITE GLOBE	112-117 days
Bulbs: Medium large, beautiful globe shape, solid; skin silvery white, thin, delicate; flesh waxy white, fine grained, crisp, mildly pungent. Popular winter keeper.	
WHITE BABOSA (WHITE GRANO)	90 days
Bulbs: Large, sweet, firm, mild, top shaped, white, and non-bolting. Developed by New Mexico Experiment Station. Particularly adapted for use on the Pacific Coast and Texas as an early market and shipping onion.	
WHITE BARLETTA	90 days
Bulbs: Small, flat, transparent white, mild, sweet flavored. Used for pickling and green bunching.	
WHITE LISBON	95-100 days
Bulbs: Grown almost entirely as early bunching onion, but bulbs when mature are globular, clear white, with juicy, crisp, mild flavored flesh.	
WHITE PORTUGAL (SILVERSKIN)	100 days
Bulbs: Medium sized, flat, white, mild pleasant flavor, solid and fine grained; all purpose white variety, used for pickling, green bunching, storage and sets; skin is silvery white; well adapted and good producer.	
WHITE QUEEN (WHITE PEARL)	90 days
Bulbs: Small, white, flat, solid flesh, mild flavor. Used for pickling and occasionally for bunching and sets.	
WHITE SWEET SPANISH	110-115 days
Bulbs: Similar to YELLOW SWEET SPANISH in type, but having clear white skin, smaller neck and white flesh. Fair storage onion and largest of white varieties.	
WHITE VICTORY (WHITE JAPANESE)	100 days
Bulbs: Large, semi-flat, clear white, solid fleshed, mild flavored; has stronger top than WHITE PORTUGAL.	

RED VARIETIES

EARLY RED GLOBE	95-100 days
Bulbs: A companion to our EARLY YELLOW GLOBE; flattened globe, medium large; skin moderately thick, bright red and tough, making good early marketing and shipping onion; flesh pink tinged white, crisp, mildly pungent.	
RED CREOLE	80 days
Bulbs: Medium size, 2-2½" in diameter, flat to medium oblate, well filled neck, skin medium thick and dull buff red; flesh is firm, strong, high percentage of dry matter, pale purplish to white. Used mostly around New Orleans. Should not be used in northern states. Adapted to short day length.	

RED WETHERSFIELD 100-105 days

Bulbs: Large, thick flat, solid, skin deep purplish red, heavy; flesh pink tinged white, solid, crisp, mildly pungent. Old standard variety for storage; now widely used for sets, with less importance for storage; excellent keeper and shipper.

SOUTHPORT RED GLOBE 113-118 days

Bulbs: Medium large, deep globe, solid; skin deep burgundy, thick and tough; flesh pink tinged white, crisp, brittle, pungent. Excellent storage onion, productive.

BUNCHING TYPES

Allium fistulosum

EVERGREEN WHITE BUNCHING (HE-SHI-KO, NEBUKA)

Bulbless perennial which forms long, slender, leek-like, silvery white stalks used for bunching; onions produced in clusters of 4-9 and are twice the size of ordinary bunching onions. Advantages: grown from seed; white skin, eliminating stripping for market.

WHITE WELSH

Non-bulbing perennial producing white, slender shoots earlier in spring than set onions can be bunched; tender, mildly pungent.



EVERGREEN WHITE BUNCHING ONION.
A SEED CROP AT MILFORD.

BROWN MULTIPLIERS

Adapted to seeding in fall as over-winter crop. Multiplies over winter to produce 4-6 stalks per set for early market.

SHALLOTS *Allium ascalonigum*

Grown commercially in Louisiana to produce green bunch onions. The line must be blanched to produce market quality onions, and under these conditions the flavor of SHALLOTS is more delicate than that of onions.

PARSLEY

Petroselinum hortense

EVERGREEN ALL-AMERICA SELECTIONS Hon. Mention 1940 . . . 70-75 days

Plants: Very vigorous, compact, large leafed type. Leaflets coarsely compound but nicely curled. Adapted to market garden and home use. Claimed to be more frost resistant than other varieties.

HAMBURG PARSNIP ROOTED *Petroselinum hortense* var. *radicosum*

85-95-days

Foliage like parsley, but plants form edible roots resembling slender parsnips in shape and color; may be stored in winter; used for flavoring soups, like celeriac.

MOSS CURLED (DOUBLE CURLED, TRIPLE CURLED) . . . 70-80 days

Plants: Compact, 7-10" tall; foliage very dark green, with very finely cut and curled leaves; used for garnishing.

PARAMOUNT ALL-AMERICA SELECTIONS Silver Medal 1936 . . . 80-90 days

Plants: Very compact, 9-12" tall, foliage very dark green, very uniformly finely cut and tightly curled; most attractive strain available.

PLAIN LEAF (ITALIAN) 75-85 days

Plants: Spreading, dense, long stemmed, medium to dark green foliage with leaves coarsely cut but not curled; used for flavoring.

WOODRUFF'S ACE 85 days

Plants: Symmetrical, compact, petioles of medium length, fronds medium large semi-elliptical, deep moss-green with leaflets finely curled and gracefully arranged. Excellent for garnishing.

PARSNIP

Pastinaca sativa

ALL AMERICAN 125-130 days

Roots: 8-10" long, 2-2½" diameter at shoulder, 1½-2" diameter at throat, creamy white, tender flesh, hollow crown, small collar, fairly smooth and almost free of fibrous roots.

Tops: 16-22" tall, strong, dark green, vigorous and hardy.

HOLLOW CROWN (GUERNSEY, IDEAL, STUDENT) . . . 130-135 days

Roots: 9-11" long, 2 $\frac{1}{4}$ -3" diameter at shoulder, 1 $\frac{3}{4}$ " diameter at throat, creamy, crisp, brittle fleshed, hollow crown, medium collar, occasional ridges with few scattered side roots.

Tops: 18-24" tall, strong, dark green, hardy.

SHORT WHITE (SHORT THICK) 100 days

Roots: Conical shape, 6-8" long, 2 $\frac{1}{2}$ -3 $\frac{1}{2}$ " in diameter at the shoulder, which is rounded, with full smooth crown and small collar.

Tops: Much shorter than Hollow Crown; easily pulled.

WHITE MODEL 125-130 days

Roots: 6 $\frac{1}{2}$ -8" long, 2-2 $\frac{1}{2}$ " diameter at shoulder, 1 $\frac{1}{2}$ -2" diameter at throat, almost chalky white, crisp, hollow crown, fairly smooth, very few side roots.

Tops: 16-22" tall, strong, dark green, frost hardy. Well adapted to muck land when root develops a pure white color and does not branch.

WOODRUFF'S ACE 125-130 days

Roots: 8-9" long, 2-2 $\frac{1}{2}$ " diameter at shoulder, 1 $\frac{3}{4}$ -2 $\frac{1}{4}$ " diameter at throat, gradually tapered throughout length, creamy, tender flesh, shallow crown, medium to small collar, smooth and free of side roots. Choice strain, uniform.

Tops: 16-22" tall, dark green, thick, vigorous grower, very productive.

WOODRUFF'S ACE has been carefully selected for uniformity of root and excellent white color.



A SECTION OF OUR PEA TRIALS AND BREEDING GROUNDS NEAR SACRAMENTO.

P E A S

Pisum sativum

SMOOTH SEEDED VARIETIES

ALASKA WILT RESISTANT 58-60 days

Pods: $\frac{1}{2}$ " wide, $2\frac{1}{4}$ -3" long, straight, pale green, plump and blunt, borne singly, mature uniformly; contain 6-8 peas.

Peas: Small, round, bluish green, usually very uniform in appearance, 35% sieve 3, 90% sieve 2-4.

Vines: 30-33" tall, slender, leaves widely spaced, foliage pale green or light blue green.

Seed: Small, round, smooth, medium blue or gray green.

ALASKA H. F. 30 60 days

Similar to ALASKA W. R. except the plant has more vigor which gives a little larger berry and a little larger yield.

AMEER (BOUNTIFUL, CLAUDIT, MAMMOTH POD ALASKA)

57-60 days

Pods: 3- $3\frac{1}{2}$ " long, slightly curved, medium green, plump, pointed, borne singly, contain 6 to 8 peas.

Peas: Medium size, round, light green.

Vines: 30-34", fairly uniform, medium green.

Seed: Medium size, round bluish green, slightly dimpled.

CREOLE 70-72 days

Pods: $2\frac{3}{4}$ -3" long, medium green, borne single and paired, well filled and blunt.

Peas: Light green, medium size.

Vines: $4\frac{1}{2}$ ' tall, medium light green, vigorous, prolific.

Seeds: Smooth, dimpled, cream to light green in color. Adapted to the South.

FIRST AND BEST (MORNING STAR, PEDIGREE EXTRA EARLY)

56-59 days

Pods: $2\frac{1}{4}$ -3" long, straight, light green, plump, blunt, borne singly, contain 6 to 7 peas.

Peas: Medium size, round, light green, fair quality.

Vines: 24-30", slender, medium green, hardy, good yielder.

Seed: Medium size, round, dimpled, creamy white to greenish white.

LAXTON'S SUPERB (EARLY BIRD) 57-60 days

Pods: $\frac{1}{2}$ - $\frac{5}{8}$ " wide, $3\frac{1}{2}$ -4" long, curved, light green, pointed and plump, borne singly, uniform cropper, contain 7-9 peas.

Peas: Medium size, round, medium green, uniform in appearance.

Vines: 19-23" tall, being dwarf of type, large leaved, stipulates prominent, foliage light to medium green.

Seed: Medium size, round, seed appears to be mixture of smooth and slightly wrinkled, medium blue green. Not the same as the English "Early Bird" variety.

MAMMOTH PODDED EXTRA EARLY 56-59 days

Pods: 3-4" long, straight, tapered slightly towards stem end, medium to light green, round, plump, blunt, borne singly; contain 6 to 7 peas.

Peas: Large, round, bright green, fair quality.

Vines: 30-36", medium dark green, dense foliage, productive.

Seed: Large, round, dimpled, cream and green.

WHITE MARROWFAT 80-83 days

Pods: 3-3½" long, straight, pale green, blunt, borne singly, and doubly; contain 6 to 8 peas.

Peas: Large, round, very pale green, poor quality.

Vines: 54-60", vigorous, very productive, medium green.

Seed: Large, round, creamy buff with yellow endosperm. Resistant to fusarium wilt.

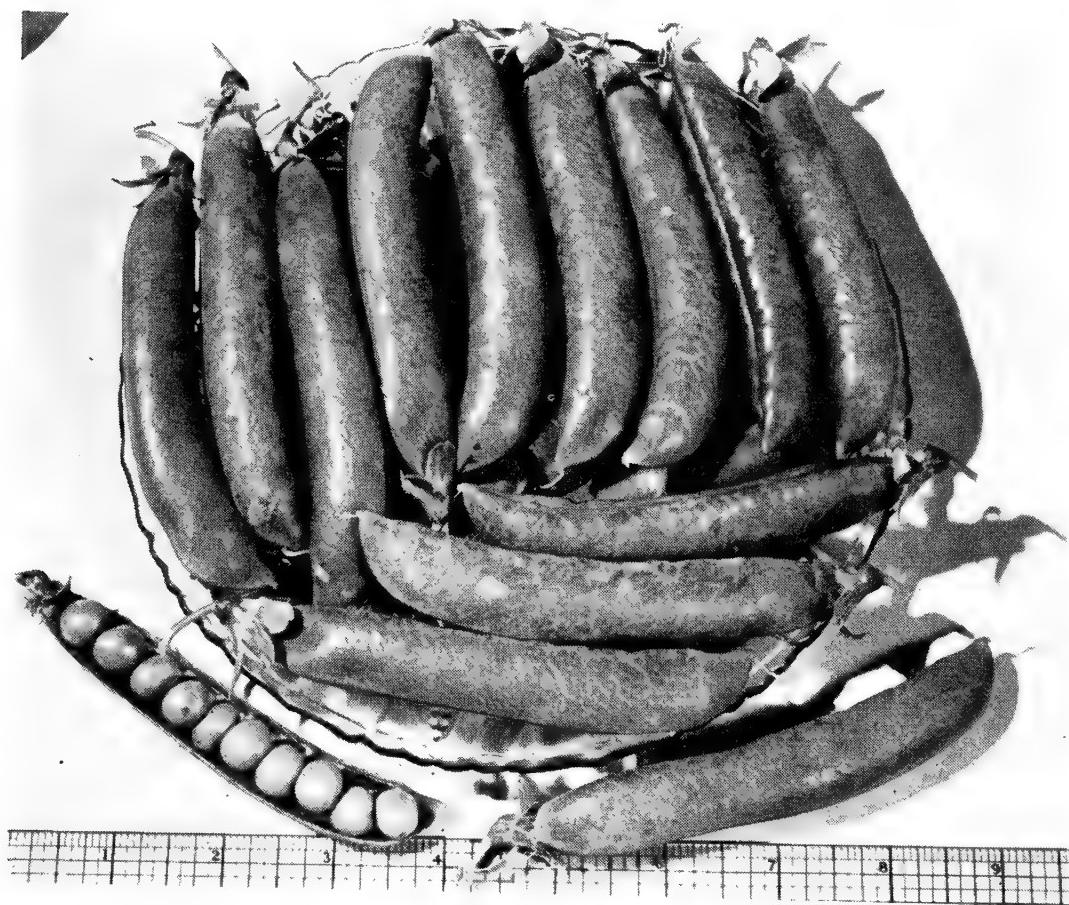
WOODRUFF'S FROST RESISTANT 56-58 days

Similar to FIRST AND BEST, but pods average shorter and vines are more hardy for early spring planting in the South.

WRINKLED SEEDED VARIETIES

ADVANCER 70-73 days

According to the PEA TYPE BOOK written by Shoemaker and Delwiche, the taller type of ADVANCER is indistinguishable from PERFECTION.



ALDERMAN

★ALDERMAN (DARK POD TELEPHONE) 74-76 days

Pods: $\frac{1}{2}$ - $\frac{5}{8}$ " wide, $4\frac{1}{2}$ - $5\frac{1}{2}$ " long, dark green, straight with rounded point, plump, well filled, borne singly, mature uniformly, contain 8-10 peas.

Peas: Large, round to round oval, dark green, excellent quality, tender and sweet, 60% sieve 6, 90% sieve 4-6, excellent for freezing and shipping.

Vines: 54-60" tall, dark green, medium heavy stem, coarse foliage, prolific and hardy grower.

Seed: Large size, wrinkled, light green.

This strain is resistant to fusarium wilt.

AMERICAN WONDER (NOTT'S EXCELSIOR) 60-62 days

Pods: $2\frac{1}{2}$ -3" long, straight, medium green, blunt, borne singly and doubly. Seeds packed tightly, contain 6 to 7 peas.

Peas: Medium size, round compressed, green, tender, flavorful.

Vines: 13-16", dark green, stocky, productive.

Seed: Medium size, squarish, green.

CANNER KING (ALL-AMERICA AW SELECTIONS) Bronze Medal 1937 67-69 days

Pods: $3\frac{1}{2}$ " long, slightly curved, borne singly and doubly, blunt, medium green, 7-9 peas.

Peas: Light green, sieve 2-7, mostly 4 to 6.

Vines: Medium green, similar to PERFECTION.

Seed: Green, medium size, wrinkled.

Resistant to fusarium wilt. Not the same as the European Canner King (Roi des Conserves).

CLIMAX 66-68 days

Pods: $2\frac{3}{4}$ " long, blunt, borne double, light green color.

Peas: Light green, small size, 1-5 sieve, 6-7 in each pod.

Vines: 3' tall, slender medium to dark green. Similar to GREEN ADMIRAL.

Seed: Small, green.

Resistant to fusarium wilt. A second early canning variety.

COMMANDO (DELWICHE) 69 days

Pods: $3\frac{1}{4}$ " long, slightly curved, blunt, light green, borne mostly in doubles.

Peas: Light green, medium size, similar to PERFECTION.

Vines: 30" tall, PERFECTION type, vigorous.

Seed: Green, wrinkled.

100% resistant to near-wilt and fusarium wilt. A canning variety. Developed by Dr. E. J. Delwiche at the University of Wisconsin and Dr. J. C. Walker.

DWARF TELEPHONE (DAISY, CARTER'S DAISY) 72-75 days

Pods: 4 - $4\frac{1}{2}$ " long, slightly curved, light green, fairly plump, pointed, borne singly and doubly; contain 7 to 10 peas.

Peas: Large, nearly round, light green, sweet, excellent quality.

Vines: 22-28", light green, branching vigorous, fairly productive.

Seed: Large, roundish, bluish, tinged green with small percentage of cream. This strain is wilt-resistant.

DWARF TELEPHONE DARK POD

Same as DWARF TELEPHONE except has a dark pod and a darker berry.

EASY MONEY

62-66 days

Pods: $\frac{3}{4}$ - $\frac{7}{8}$ " wide, $3\frac{3}{4}$ - $4\frac{1}{4}$ " long, slightly curved, dark green, blunt, and plump, tapered at tip, borne singly, contain 6-8 peas.

Peas: Large, round, medium green, tender; used by some for canning.

Vines: 22-26" tall, dark green, heavy stem, coarse foliage.

Seed: Large, wrinkled, cream and green.

EVERBEARING (BLISS EVERBEARING)

72-76 days

Pods: $3\frac{1}{2}$ " long, straight to curved at tip, dark green, blunt, plump, borne doubly; contain 5-7 peas.

Peas: Very large, round with flattened ends, light to medium green, good quality and flavor.

Vines: 24-30" tall, dark green, stocky, coarse branching foliage.

Seed: Very large, flattened, cream and bluish green with the majority cream. Resistant to fusarium wilt.

FREEZONIAN

ALL-AMERICA SELECTIONS

Bronze Medal 1948

63 days

Pods: $3\frac{1}{2}$ " long, blunt ended, dark green.

Peas: Large, dark green and attractive.

Vines: 30" tall, medium heavy, dark green.

Seed: Large, wrinkled.

An excellent wilt resistant variety for the garden or quick freezing.

GLACIER

62 days

Pods: $3\frac{1}{4}$ " long, dark green, set single, plump and well filled, usually 7-8 peas per pod, blunt ended.

Peas: Dark green, semi-round, fine quality.

Vines: 32" tall, dark green, medium heavy.

Seed: Large, cream and green.

A THOMAS LAXTON type but resistant to fusarium wilt.

GRADUS (PROSPERITY, EARLY GRADUS)

62-64 days

Pods: $3\frac{1}{2}$ -4" long, straight, medium green, pointed, plump and round, borne singly; contain 6-8 peas.

Peas: Large, oblong, sweet, medium green, fine flavored.

Vines: 28-33" tall, light green, moderately dense foliage, vigorous and fairly productive.

Seed: Large, elongated, flat, cream and green.

GREEN ADMIRAL

68-70 days

Pods: $\frac{7}{16}$ - $\frac{1}{2}$ " wide, $2\frac{1}{2}$ -3" long, straight, medium dark green, blunt and plump, borne singly, uniformly maturing; contain 6-8 peas.

Peas: Medium size, round, medium green, good quality, used for canning.

Vines: 32-38" tall, dark green, slender stem, medium coarse foliage.

Seed: Small, bright green, coarsely dimpled, roundish.

LAXTONIAN (BLUE BANTAM, PETER PAN, HUNDREDFOLD)

60-62 days

Pods: $\frac{5}{8}$ - $\frac{3}{4}$ " wide, $4\frac{1}{4}$ - $4\frac{3}{4}$ " long, slightly curved, dark green, pointed and plump, borne singly, maturing is fairly uniform; contain 7 to 8 large peas.

Peas: Large, oval or elliptical cross section, medium to dark green, excellent quality and flavor; used for canning, freezing and market.

Vines: 18-21" tall, dark green, heavy stem, coarse foliage, with very prominent stipules.

Seed: Large, flattened, mixture of cream seed with sprinkling of apple green, yellow endosperm, large dimples in surface.

LAXTON'S PROGRESS 60-62 days

Pods: $\frac{5}{8}$ - $\frac{7}{8}$ " wide, 4-5" long, moderately curved, glossy dark green, pointed and fairly plump, borne singly; contain 7 to 10 large peas.

Peas: Similar in appearance to LAXTONIAN, dark green, very good quality and flavor; used for market.

Vines: 16-20" tall, very prolific, similar vine appearance to LAXTONIAN but more compact.

Seed: Similar type of mixed color to LAXTONIAN, but majority of seed is apple green in contrast to LAXTONIAN which has practically all seed cream colored.



EARLY GRADUS

LITTLE MARVEL	61-63 days
Pods: 2 $\frac{3}{4}$ -3" long, straight, dark green, very plump, blunt, very tightly packed, borne singly and doubly, contain 6-8 peas.	
Peas: Large, compressed round, dark green, exceptional quality and flavor, finest quality of all present varieties.	
Vines: 15-18" tall, stocky, dark green, heavy foliage, prolific.	
Seed: Medium sized, squarish, medium green.	
MAMMOTH GREEN	76-80 days
Pods: $\frac{1}{2}$ - $\frac{5}{8}$ " wide, 3-3 $\frac{1}{2}$ " long, straight, light green, blunt, plump, borne singly and doubly, good cropper; contain 5-7 peas. Improved type of PRINCE OF WALES and has fewer skips in pods.	
Peas: Large, round, medium green, fairly uniform, 20% sieve 7-8, 70% sieve 5-8.	
Vines: Almost identical with PRINCE OF WALES, but more vigorous.	
Seed: Large, round with coarse dimples, medium green and cream. A canning variety.	
★MIRACLE	68-70 days
Pods: 4-4 $\frac{1}{2}$ " long, dark green, borne singly and doubly, distinctly curved, pointed.	
Peas: About 10 to a pod, deep green, large.	
Vines: 48-54" tall, vigorous, light green, stout stems.	
Seed: Deep green, medium large, wrinkled. A freezing variety.	
MORSE'S MARKET	67-70 days
Pods: 4 $\frac{1}{2}$ -5" long, curved, dark green, pointed, fairly plump, borne singly; contain 7 to 9 peas.	
Peas: Large, round, medium dark green, good quality for home garden and market.	
Vines: 24-30" tall, medium green, heavy coarse foliage, heavy stemmed, vigorous and productive.	
Seed: Large, round, cream and green. Resistant to fusarium wilt.	
MORSE'S NO. 9 (PROGRESS NO. 9)	62 days
Pods: 4 $\frac{1}{2}$ ", large, pointed, borne singly, looks puffy.	
Peas: Large, dark green, attractive.	
Vines: 16" tall, coarse, dark green. Very similar to LAXTON'S PROGRESS.	
Seed: Large, green.	
MORSE'S NO. 60	73 days
Pods: Very large 5 $\frac{1}{2}$ ", pointed, slightly curved, medium and dark green.	
Peas: 9 to 11 large peas in a pod, dark green.	
Vines: Dark green, sturdy, vigorous, 36" tall.	
Seed: Large, medium green. Resistant to fusarium wilt.	

CANSWEET (NO. 4683, ALSWEET) 56-58 days

Pods: 2 $\frac{3}{4}$ ", light green, borne single, straight, blunt, tightly packed.
Peas: Small, sieve 2-4, light green, similar to ALASKA.
Vines: 28-30" tall, slender, light green to straw color.
Seed: Small and green.
A canning variety.

ONWARD 70 days

Pods: 3 $\frac{3}{4}$ ", single and double, blunt, straight, medium green.
Peas: 6 to 8 in a pod, large, green.
Vines: Vigorous, medium light green, stout stem, heavy foliage.
Seed: Large, green.

PERFECTED WALES 72-74 days

Pods: 3 $\frac{1}{2}$ ", borne doubly, blunt, light green.
Peas: Light green, large. Similar to PRINCE OF WALES.
Vines: 36-38", prolific and vigorous, medium dark green.
Seed: Large, light green, but not as light as PRINCE OF WALES.
An excellent large canning strain resistant to fusarium wilt.

PERFECTION 72 days

One of the older strains of PERFECTION which were susceptible to fusarium wilt. In other respects it is similar to resistant strains now available. A canning variety.

PERFECTION, EARLY 66-68 days

Pods: 3 $\frac{1}{2}$ " long, borne singly and doubly, light green, blunt, straight, plump.
Peas: Medium size, green.
Vines: 30" tall, dark green, vigorous.
Seed: Medium green, medium size.
A canning variety resistant to fusarium wilt.

PERFECTION, WILT RESISTANT 70-72 days

Pods: $\frac{1}{2}$ - $\frac{5}{8}$ " wide, 3-3 $\frac{1}{2}$ " long, straight, medium green, not quite blunt tipped, borne doubly; contain 6 to 8 peas.
Peas: Medium size, round, medium green, uniform type making attractive pack; 35% sieve 5, 85% sieve 4-6.
Vines: 29-34" tall, moderately heavy stem with profuse coverage of medium sized leaflets, medium green.
Seed: Medium size, green.
A canning variety.

PREMIUM GEM (CANNER'S GEM, LITTLE GEM, McLEAN'S GEM) 62-65 days

Pods: 2 $\frac{1}{2}$ -3" long, straight to slightly curved, medium green, blunt, plump, almost round, borne singly and doubly; contain 6 to 7 peas.
Peas: Medium large, round, medium dark green, good quality.
Vines: 20-24" tall, medium green, dense vigorous foliage, hardy, very productive.
Seed: Medium size, drum shaped, medium green with occasional cream colored.

PRIDE 63-65 days
 Pods: 3-3½" long, straight, dark green, plump, blunt, borne mostly doubly, well filled; contain 7 to 9 peas.
 Peas: Medium large, nearly globular, medium dark green, excellent for canning, giving an appreciable percentage of larger sizes.
 Vines: 26-32" tall, dark green, stocky, vigorous, productive.
 Seed: Medium size, roundish, green.
 A canning variety; resistant to fusarium wilt.

PRINCE OF WALES 74-76 days
 Pods: ½-5/8" wide, 3-3½" long, straight, pale green, blunt and plump, borne singly and doubly, light cropper; contain 4 to 6 peas.
 Peas: Large, round, medium green, fairly uniform; 45% sieve 6, 95% sieve 4-6, used for canning.
 Vines: 36-42" tall, heavy stem, coarse foliage, medium green.
 Seed: Large, round with coarse dimples and wrinkles, medium green and cream.
 A canning variety and market garden variety.

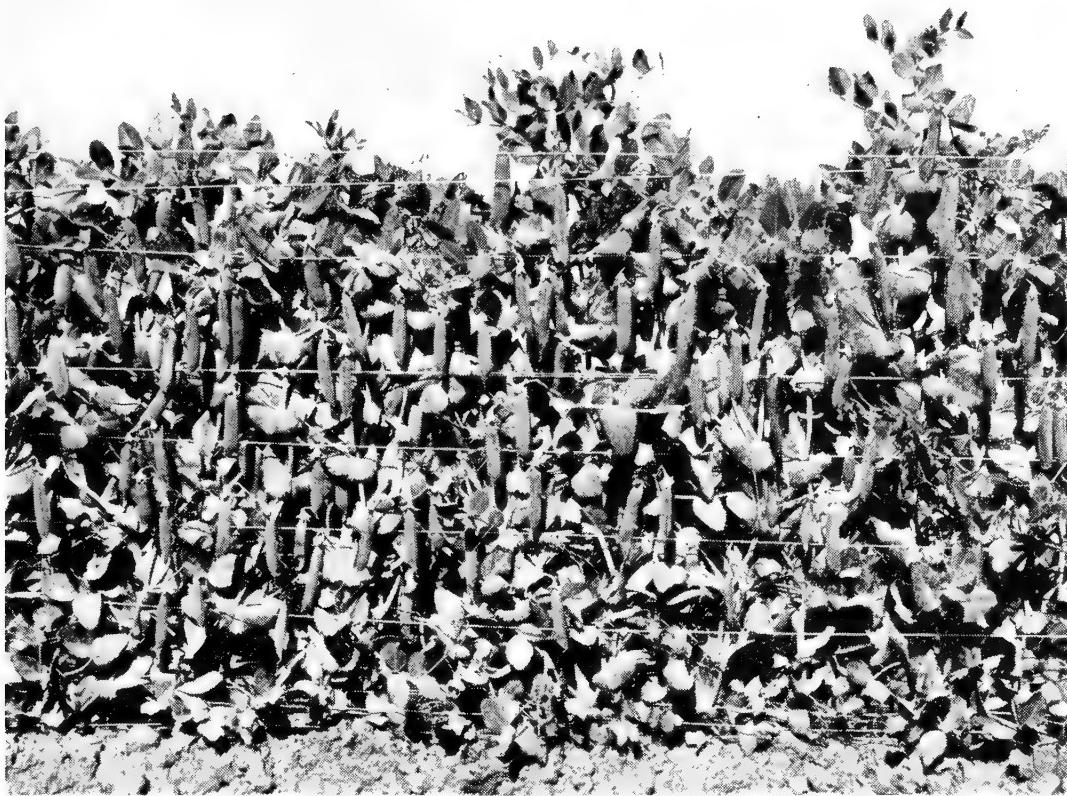
STRATEGEM, IMPROVED (POTLATCH, DWARF DEFIANCE)

77-80 days
 Pods: 4-4½" long, straight, dark green, pointed, plump, borne singly and doubly; contain 7 to 10 peas.
 Peas: Large, bright green, round, tender, excellent quality; used for late home garden, local market, and shipping.
 Vines: 24-28" tall, dark green, branching vigorous, productive.
 Seed: Large, roundish, medium green.

SURPRISE 58 days
 Pods: 2½" long, single, blunt, light green.
 Peas: 6-8 in a pod, small sieve, 1-5, light green.
 Vines: 28" high, slender, medium green.
 Seed: Small, green.
 A canning variety.

SURPRISE, WILT RESISTANT 58-61 days
 Pods: ½" wide, 2½-3" long, straight, light green, plump and blunt, borne singly, mature uniformly; contain 6-8 peas.
 Peas: Medium size, round, light green, excellent quality for early crop, very thin skinned and sweet; 60% sieve 4-5, 90% sieve 3-6.
 Vines: 28-32" tall, medium green foliage and slender stem, resembling REGULAR SURPRISE in growth habit, but somewhat more prolific.
 Seed: Medium small, finely wrinkled, round, medium green.

SUTTON'S EXCELSIOR 65-68 days
 Pods: 3-3½" long, straight, light green, blunt, borne singly; contain 6 to 8 peas.
 Peas: Large, oblong, light green, good flavor.
 Vines: 20-24" tall, medium green, sturdy and productive.
 Seed: Large, flattened oblong, cream and light grayish green.



WOODRUFF'S TOPPER

★THOMAS LAXTON, DARK PODDED

58-62 days

Pods: $\frac{1}{2}$ - $\frac{5}{8}$ " wide, $3\frac{1}{4}$ - $3\frac{3}{4}$ " long, straight, dark green, blunt and plump, borne singly; contain 6 to 8 peas.

Peas: Large, roundish, oval, medium dark green, very good quality, excellent for canning, freezing and market; 30% sieve 5, 93% sieve 3-6.

Vines: 33-38" tall, moderately heavy foliage, dark green.

Seed: Medium size, green and cream, rounded, dimpled and wrinkled.

WANDO

70-72 days

Pods: $3\frac{1}{2}$ " long, dark green, borne mostly double, average 10 per vine.

Peas: Dark green predominantly 3 to 5 sieve size, about 8 per pod.

Vines: 24-30" tall, dark green, first blossom at the 12th node.

Seed: Small, green.

An excellent market garden and freezing variety where small berry is desired.

WISCONSIN EARLY SWEET

58-61 days

Pods: $\frac{1}{2}$ - $\frac{5}{8}$ " wide, $2\frac{1}{2}$ -3" long, straight, light green, blunt and plump, borne singly, matures uniformly; contain 6-7 peas.

Peas: Medium size, round, light green; excellent quality with thin skin, firm endosperm and good flavor; 40% sieve 4, 95% sieve 2-5.

Vines: 26-30" tall, medium green, foliage with slender stem, plant habit is similar to SURPRISE.

Seed: Medium size, finely wrinkled, roundish, medium blue green.

A canning variety.

★WOODRUFF'S TOPPER 68-70 days
 Pods: $\frac{1}{2}$ " wide, $3\frac{1}{2}$ -4" long, dark green, straight, plump, blunt, well filled, borne mostly doubly, set on upper part of vine, giving uniform maturity; contain 6 to 8 peas.
 Peas: Medium large, rounded oval, dark green, excellent flavor, and quality; good variety for canning, freezing or market.
 Vines: 28-32" tall, dark green, heavy stem, heavy foliage.
 Seed: Large, wrinkled green.
 Resistant to fusarium wilt.

WORLD'S RECORD 58-61 days
 Pods: $\frac{3}{4}$ " wide, $3\frac{3}{4}$ -4" long, mostly straight, light to medium green, rounded point at tip, plump, borne singly; contain 7 to 8 peas.
 Peas: Large, round to oval, intense dark green with thin skin; used for freezing and market; 40% sieve 6, 90% 4-6.
 Vines: 28-33" tall, medium heavy with well scattered coarse foliage, light to medium green.
 Seed: Large, green and cream colored, medium fine-wrinkling, round.

★WYOLA 88 days
 Pods: 3" long, dark green, 5 to 6 peas to a pod.
 Peas: Dark green, predominately No. 4 and No. 5 sieve size.
 Vines: 36-38", dark green, dense foliage, 5 pods per vine.
 Seed: Small, green.
 An excellent, small, sweet, freezing strain.

★WYOMING WONDER (GIANT STRIDE, NO. 40) 74-76 days
 Pods: $\frac{1}{2}$ - $\frac{5}{8}$ " wide, $4\frac{1}{2}$ -5" long, straight to curved at tip, dark green, pointed, plump, borne singly and doubly, contain 8 to 10 peas.
 Peas: Large, round, dark green, tender, exceptionally fine flavored peas; mostly large sieve sizes.
 Vines: 24-28" tall, dark green, stocky, dense foliage.
 Seed: Large, wrinkled, medium green and cream.
 This variety is wilt-resistant.

EDIBLE PODDED VARIETIES

DWARF GRAY SUGAR 64-67 days
 Pods: $2\frac{3}{4}$ - $3\frac{1}{4}$ x $5\frac{1}{8}$ - $3\frac{1}{4}$ " curved, fairly plump, semi-pointed, light green, borne doubly, tender, excellent quality.
 Vines: 26-32" tall, very prolific, dark green, slender, stemmed, much branched, purple blossoms.
 Seed: Small, dimpled, round, mottled reddish gray.

DWARF WHITE SUGAR 64-67 days
 Pods: $2\frac{1}{2}$ -3 x $5\frac{1}{8}$ - $3\frac{1}{4}$ ", straight, to slightly curved, fairly plump, semi-pointed, light green, borne singly and doubly, tender excellent quality.
 Vines: 24-30" tall, slender, medium green, branching, productive, white blossomed.
 Seed: Small, round, dimpled, creamy.

MAMMOTH LUSCIOUS SUGAR 71-75 days

Pods: 4-4½ x ¾-7/8", straight, light green, blunt, flat, borne singly, good quality.

Vines: 50-57" tall, light green, coarse foliage, fairly vigorous and productive.

Seed: Medium large, round, gray.

MAMMOTH MELTING SUGAR 71-75 days

Pods: 4-5 x ¾-7/8", mostly straight, light green, flat, blunt to tapered tip, borne singly, stringless and fiberless, excellent quality, best of edible podded varieties.

Vines: 50-57" tall, light green, coarse foliage, vigorous, productive.

Seed: Medium large, round, smooth, creamy white with yellow endosperm.

P E P P E R

Capsicum frutescens

SWEET VARIETIES

BULLNOSE (LARGE BELL) 55-60 days

Fruits: 3" in diameter, 4" long, blocky, pendant, thick flesh, mild with pungent ribs, dark green becoming scarlet.

Plants: 24-28" tall, prolific, upright.

CALIFORNIA WONDER 72-76 days

Fruits: 3½-4" in diameter, 4-4½" long, very blocky, mostly 4-lobed, upright, thickest flesh of all peppers, flavorful and very mild, glossy deep green becoming red at maturity.

Plants: 22-28" tall, very erect and vigorous, prolific over an extended season.

CALWONDER, EARLY 65-68 days

Fruits: CALIFORNIA WONDER type, but smaller, uniform, productive.

Plants: Small CALIFORNIA WONDER type, earlier maturing, suitable for more northern areas. Is rapidly replacing CALIFORNIA WONDER in many areas where environment is not conducive to good yield on CALIFORNIA WONDER.

CHINESE GIANT 80-85 days

Fruits: 4-4½" diameter, 4½-5" long, pendant, square, blocky, crumpled ends; flesh medium thick, dark green, becoming bright scarlet red.

Plants: 20-28" tall, vigorous, leafy.

FLORIDA GIANT 74-78 days

Fruits: CALIFORNIA WONDER type, but average larger.

Plants: 24-30" tall, little later than CALIFORNIA WONDER; used in South because of heavy foliage and vigorous growth.

GOLDEN QUEEN

75-79 days

Fruits: 3-3½" diameter at shoulder, 4-4½" long, pendant, tapered, smooth; short-fruited RUBY KING in appearance, mostly 3 lobed; flesh medium thick, sweet, tender, bright green becoming golden yellow when mature.

Plants: 22-26" tall, semi-spreading, fairly vigorous.

HARRIS' EARLIEST

65 days

Fruits: Very early, 3½ x 3" long, 3" wide, 3-4 lobed, pendant, mild, sweet, deep green, scarlet when ripe.

Plants: Uniform, dwarf, and compact, upright, vigorous. A medium thin fleshed variety of value for extreme earliness.

HARRIS' EARLY GIANT

62-66 days

Fruits: 3-3½" diameter at shoulder, 4-4½" long, pendant, blocky, slightly tapered, mostly 3-loculed; flesh medium thick, sweet, dark green becoming bright scarlet.

Plants: 18-22" tall, semi-spreading, very prolific, large fruited early maturing, marketing or home garden variety.

ILLINOIS F-5

58-60 days

Fruits: Of the RUBY KING type, 3 and 4 lobed. 4½-5" long, 3½-4" wide at stem end. 45 fruits will fill a bushel. Thick walls. Has the best crimson red color we have ever seen. Excellent flesh quality and flavor.

Plant: Compact, heavy foliage. Out-yields RUBY KING. Has the quality of bearing fruits continuously under any environmental condition, over a very long season, and the crown set does not inhibit subsequent fruits. This is not recommended for the farther north states such as Michigan and Minnesota. Earliest of large fruited peppers.

**ILLINOIS F-5**

KING OF THE NORTH 65-70 days

Fruits: Early RUBY KING strain, developed for the North; very similar to RUBY KING but smaller fruited and not as pinched and tapered.

Plants: 22-26" tall, erect, very prolific, hardy and vigorous.

LARGE SWEET YELLOW 60 days

Fruits: Shaped like a BULLNOSE pepper, but a little wider at the shoulder.

About $\frac{2}{3}$ the size of CALWONDER, the largest sweet yellow pepper.

Thick, bright yellow flesh. Skin golden yellow.

Plants: Similar to CALIFORNIA WONDER.

NEAPOLITAN 62-66 days

Fruits: 2-2 $\frac{1}{4}$ " diameter at shoulder, 3 $\frac{1}{2}$ -4" long, upright, mostly 3-loculed, smooth, glossy, tapered; flesh medium thick, very sweet, crisp, pale yellow green becoming light scarlet.

Plants: 20-25" tall, semi-spreading, branched, very early, prolific.

OAKVIEW WONDER 70 days

Fruits: Blocky, smooth, predominately 4-lobed, very sweet flesh, 4-4 $\frac{1}{2}$ " long by 3 $\frac{1}{2}$ ".

Plants: 22" tall, more compact than CALWONDER. Fruits set earlier and yield abundantly over a long season. For home and early market garden use.

OSHKOSH 70 days

Fruits: Glossy green, turns to bright canary yellow when mature. Smooth without lobes, taper to abrupt blunt point. Broad at base. Fruit borne upright.

Plants: Compact and dwarf.

PENN WONDER 60 days

Fruits: Bell type, thick walls, sweet, medium in size, pendant, three lobed. Easy to pick because of brittle pedicle.

Plants: Medium sized, wide leaves, similar to CALWONDER but more fully branched. One of earliest types. In HARRIS EARLIEST season but has very good flesh thickness.

PIMENTO (PERFECTION) 71-75 days

Fruits: 2 $\frac{1}{2}$ " diameter, 3 $\frac{1}{2}$ " long, tapering in heart shape, smooth glossy skin, pendant, very mild, thick fleshed, ideal for coring, dark green becoming bright crimson at maturity.

Plants: 28-32" tall, heavy, erect, very productive.

RUBY KING 67-72 days

Fruits: 2 $\frac{1}{2}$ -3" diameter at shoulder, 4 $\frac{1}{2}$ -5" long, pendant, tapered to square end, mostly 3-loculed, smooth with crumpled tips; flesh medium thick to thick, mild and sweet, dark green becoming glossy dark red.

Plants: 24-30" tall, vigorous, upright, leafy, productive.

SWEET BANANA Bronze Medal 1941 . . 60-65 days

Fruits: 7" long, 1 $\frac{1}{2}$ " wide, CAYENNE shape, sweet, medium thick wall, light yellow turning to bright red at maturity.

Plants: Upright, about 22" tall, prolific, dark green, large leaves.

SWEET CHEESE (TOMATO, SQUASH, SUNNYBROOK) . . . 75-80 days

Fruits: 2½-3" diameter, 1-1¾" long, upright, oblate with square shoulder, mostly smooth but occasional ridging; flesh medium thick to thick, bright green becoming red, sweet, juicy. Home garden novelty, although often very prolific.

Plants: 23-28" tall, erect, usually productive, branching.

WALTHAM BEAUTY 60 days

Fruits: 4-4½" in length, 3½" in diameter, 4-lobes, glossy green turning to an attractive red, thick walled, tapering slightly.

Plants: Upright, vigorous. Well adapted to northern climates where it gives an early, heavy yield. This strain has been selected for Northern Central States.

WINDSOR A (ALL-AMERICA SELECTIONS) Silver Medal 1937 58-60 days

Fruits: 2-2½" diameter, 5-6" long, mostly pendant, rounded taper to tips, tips mostly square but occasionally pointed; mostly 3-loculed with few 2-loculed; flesh thick to very thick, extremely sweet and juicy, medium dark green becoming bright red; very heavy fruits.

Plants: 20-26" tall, heavy and stocky, semi-spreading, very prolific. Earliest high yielding variety extant; developed by L. C. Curtis of Connecticut Station. Popular home garden and local market type.

WORLDBEATER (RUBY GIANT) 73-78 days

Fruits: 3¼-3¾" diameter at shoulder, 4½-5" long, pendant, slight taper with blocky ends; mostly 4-loculed, smooth glossy; flesh medium thick to thick, dark green becoming bright dark red.

Plants: 26-32" tall, erect, sturdily branched, productive. Selected from cross of RUBY KING and CHINESE GIANT.

WORLDBEATER BLIGHT-RESISTANT 70 days

Fruits: 4½" long, 3¾" in diameter, mostly 4-lobed, slightly tapered, medium thick walls, attractive green, bright red at maturity.

Plants: 26" tall, uniform, vigorous, upright. Resistant to tobacco mosaic. Popular with Florida growers for fall and winter production.

HOT OR PUNGENT VARIETIES

ANAHEIM CHILI 78-82 days

Fruits: 1-1½" diameter at shoulder, tapering to point, 6-8" long, nearly straight, pendant, flesh thicker than other "hot" varieties, deep green, changing to bright scarlet when mature.

Plants: 20-24" tall, bushy, vigorous, very prolific, leafy.

HUNGARIAN YELLOW WAX 60-65 days

Fruits: 6" long, 2" thick, tapered smooth, waxy, light yellow, becoming red; flesh thick, pungent. Conical in shape

Plants: Compact, thrifty, small, highly productive.

LARGE RED CHERRY 80-84 days

Fruits: Globular to flattened globe shaped, about 1" in diameter, pendant, smooth surface, solid, very pungent, glossy dark green changing to bright scarlet when mature.

Plants: 26-29" tall, erect, bushy, medium coarse foliage, very prolific.

LARGE THICK CAYENNE (FINGER) 70-74 days

Fruits: 1-1½" diameter at shoulder, 6-8" long, inclined to be smooth and curved; thicker flesh than LONG NARROW CAYENNE, twice as much flesh, not quite as pungent.

Plants: 24-30" tall, erect, leaves are longer and plant more open than LONG NARROW CAYENNE.

LONG NARROW CAYENNE 70-74 days

Fruits: ½-¾" diameter at shoulder, 4-4½" long, very slim, tapering, characterized by washboard corrugations below shoulder when mature, pendant, very pungent; dark green changing to bright dark red when mature.

Plants: 24-30" tall, very erect with bushy top, very prolific.

RED CHERRY 82 days

Fruits: Round, smooth, solid, very pungent, deep green changing to scarlet. Used in pickles.

Plants: Upright, vigorous, and prolific.

RED CHILI (RED CLUSTER) 80-84 days

Fruits: ¾-½" diameter, 2-2½" long, smooth, cone shaped, thin fleshed, one of hottest peppers for pickles, upright, light or yellowish green becoming dark red when mature.

Plants: 16-20" tall, low spreading bushy growth, exceptionally prolific.

TABASCO 90-95 days

Fruits: ½-¾" diameter, about 1" long, similar in shape and type to RED CHILI, but smaller fruited; immature fruits are green tinged yellow, becoming scarlet when mature.

Plants: 19-23" tall, erect, but upper part of plant has heavy bushy foliage, tending to be spreading; probably most prolific of all commercial peppers.

P U M P K I N

Cucurbita spp.

CONNECTICUT FIELD (BIG TOM, JACK O'LANTERN, LARGE YELLOW) *C. pepo* 112-120 days

Fruits: 10-14" deep x 12-15" in diameter, large, weigh about 20 lbs., smooth, hard, orange surface, somewhat ribbed, flattened globe shape.

Flesh: Thick, orange yellow, coarse, dry and sweet.

EARLY CHEYENNE	<i>C. pepo</i>	80-90 days
Fruits:	2½-4" deep x 6-7" in diameter, small, weigh 2½-3 lbs., smooth, medium hard, reddish-orange, slightly ribbed, flat globe.	
Flesh:	thin to medium, deep reddish orange, fine textured, moderately dry, rich flavored, fiberless. Early, prolific inbred from SMALL SUGAR, developed at U. S. Horticultural Field Station, Cheyenne, Wyoming; finest quality winter pie or baking squash developed.	
GOLDEN CUSHAW (YELLOW CUSHAW, GOLDEN WINTER CROOK-NECK)	<i>C. moschata</i>	112-120 days
Fruits:	17-25" long, x 8-9" largest diameter, medium large, bulbous crook-neck, weigh 12-17 lbs., smooth, medium soft, buff color with distinct bloom.	
Flesh:	Solid in neck, medium thick in bulbous tip, dry yellow, coarse.	
GREEN STRIPED CUSHAW	<i>C. moschata</i>	110-115 days
Fruits:	16-20" long x 8-10" largest diameter, medium large, long curved pyriform shape, weight 12-16 lbs., smooth, medium soft, cream with dark green stripe.	
Flesh:	Solid in neck, medium thick in bulbous tip, pale yellow, coarse and fibrous, not very dry.	
JAPANESE PIE	<i>C. moschata</i>	112-115 days
Fruits:	CUSHAW type with enlarged blossom end; about 12" long and 8" diameter at bulge, weigh about 12 lbs., hard, smooth surface; dark green stripe, alternate with light green.	
Flesh:	Dark yellow or yellow orange, fine grained, good quality; useful as early canning type.	
KENTUCKY FIELD	<i>C. moschata</i>	120 days
Fruits:	Medium sized 10 x 12", weigh 15 lbs.	
Rind:	Thick, tough, smooth, ribbed, and a dusty yellow color.	
Flesh:	Moderately thin, coarse, fibrous, light orange, and is excellent for canning. Also used for feeding stock. Plants are prolific.	
KING OF THE MAMMOTHS (POT IRON, JUMBO, MAMMOTH CHILI SQUASH)	<i>C. maxima</i>	115-120 days
Fruits:	Largest of all <i>Cucurbita</i> spp., 18-24" long x 15-18" in diameter, weigh 35-50 lbs., often larger, fairly smooth, wide but shallow ribbing, soft dull orange, streaked or splotched with buff.	
Flesh:	Thick, variable yellow to orange, coarse, moist, partially fibrous, only fair quality.	
LARGE CHEESE	<i>C. moschata</i>	108-112 days
Fruits:	Very flat, 6-7" deep x 12-15" diameter, heavy ribbing, dull orange surface with heavy bloom, weigh 12-15 lbs., hard shell.	
Flesh:	Dull orange yellow, very thick, has very little fiber, good flavor.	
SMALL SUGAR (NEW ENGLAND PIE, EARLY SUGAR)	<i>C. pepo</i>	115-118 days
Fruits:	Flattened globe, 8-9" deep x 10-12" diameter, moderately ribbed, dark orange, glossy, hard surface, productive, weight 6-8 lbs.	
Flesh:	Orange yellow, thick, fine textured, dry, sweet, excellent quality.	

TENNESSEE SWEET POTATO *C. moschata* 110-115 days

Fruits: 12-15" long x 9-10" largest diameter, medium large, weigh 12-15 lbs., pyriform or pear shaped, smooth, medium hard, cream or ivory with broad, barely noticed, light green stripes.

Flesh: Yellow, very thick, moderately firm, coarse to medium texture, fair quality. Good winter storage strain.

WHITE CUSHAW (JONATHAN) *C. moschata* 110-115 days

Fruits: 18-20" long x 8-9" largest diameter, medium large, similar to other CUSHAW types but shorter, thicker neck, usually straighter; weigh 12-16 lbs., smooth, medium soft, ivory or pale creamy.

Flesh: Solid in neck, medium thin in bulbous end, fairly moist, cream colored, stringy and coarse.

WINTER LUXURY *C. pepo* 110 days

Fruits: 6-7" long x 9-10" in diameter, medium size, weight 7-9 lbs. Nearly round with flattened ends, indistinct ribbing, russeted, medium hard, orange.

Flesh: Moderately thick, tender, fairly sweet and juicy, pale orange, good quality. Home and market garden sort.

R A D I S H

Raphanus sativus

EARLY VARIETIES

BICOLOR 26-28 days

Roots: Similar to SPARKLER, but color is half bright scarlet and half white; round to slightly olive shaped, medium size, very uniform.

Tops: Short.

CAVALIER 20-22 days

Roots: $\frac{1}{2}$ x $\frac{3}{4}$ ", oval or olive shape, very uniform, bright scarlet skin, tender white flesh.

Tops: Short, very uniform; ideal for forcing or early market.

CHARTIER (LONG ROSE) 32-35 days

Roots: 1-1 $\frac{1}{4}$ x 7-8", slender, long tapered, bright rose at top fading to pale rose at tip.

Tops: Medium.

CHERRY BELLE ALL-AMERICA SELECTIONS Bronze Medal 1947

Roots: Saxa type though a trifle lighter in color, will stay solid longer and does not crack as does SAXA.

Tops: Similar to SAXA. Not recommended for early spring out door planting. Unexcelled for greenhouse or hot-bed forcing. Excellent for late spring or early fall planting on all types of soil.



WOODRUFF'S BEAUTY

CINCINNATI MARKET (LONG SCARLET SHORT TOP) . . . 28-30 days

Roots: $\frac{5}{8}$ - $\frac{7}{8}$ x 6-7", long, slender, cylindrical, with tapering tips, fairly smooth, deep carmine; flesh white, crisp, tender.

Tops: Short to medium.

COMET ALL-AMERICA SELECTIONS Silver Medal 1936 . . . 24 days

Roots: SCARLET GLOBE type, scarlet color, small, crisp and solid.

Tops: Short.

CRIMSON GIANT 28-30 days

Roots: 1-1 $\frac{1}{2}$ " in diameter, rounded-turnip to flattened globe shape, bright crimson; flesh crisp and tender over long period.

Tops: Medium large.

FRENCH BREAKFAST 24-27 days

Roots: $\frac{1}{2}$ - $\frac{5}{8}$ x 1 $\frac{1}{4}$ -1 $\frac{3}{4}$ ", short, cylindrical, stump rooted, bright scarlet with white tip; flesh crisp and tender; popular for forcing.

Tops: Short.

ICICLE (WHITE ICICLE) 27-30 days

Roots: $\frac{1}{2}$ - $\frac{3}{4}$ x 6-7", long, cylindrical to long tapering, snowy white; flesh clear white and brittle.

Tops: Medium.

LONG BRIGHTEST SCARLET (CARDINAL) 26-29 days

Roots: Earliest long forcing type; $\frac{5}{8}$ - $\frac{7}{8}$ x 4-5", long tapering; clear scarlet skin, with touch of white at tip; crisp, tender, white flesh; stands well.

Tops: Medium.

PHILADELPHIA WHITE BOX 28 days

Roots: 1 $\frac{3}{8}$ ", white flesh, crisp, round.

Tops: Large, coarse.

A fairly early white variety used for forcing or outside culture.

SAXA (RAPID RED) 21-23 days

Roots: Choice forcing variety, 1 $\frac{1}{2}$ -5 $\frac{1}{8}$ " diameter; globe shaped, bright scarlet skin; very tender white flesh.

Tops: Short, making it ideal for forcing.

SCARLET GLOBE, MEDIUM TOP 23-26 days

Roots: 1 $\frac{1}{2}$ -5 $\frac{1}{8}$ x 5 $\frac{1}{8}$ -3 $\frac{1}{4}$ ", thick, olive shape; ideal outdoor radish; intense scarlet skin and crisp white flesh.

Tops: Medium, very uniform, giving attractive bunches.

Should not use for summer planting because tops are too tall. Use SHORT TOP SCARLET GLOBE.

SCARLET GLOBE, SHORT TOP 23-26 days

Roots: Same as MEDIUM TOP strain.

Tops: Short, for forcing. This is SCARLET GLOBE root with SAXA top.

SPARKLER WHITE TIP (EARLY SCARLET TURNIP WHITE TIP) 25-28 days

Roots: 1 $\frac{1}{2}$ -5 $\frac{1}{8}$ " diameter, globe to short top shape, scarlet skin with bottom third clear white; crisp white flesh.

Tops: Small to medium.

WHITE STRASBURG 35-40 days

Roots: Attractive white summer variety; 5 $\frac{1}{8}$ -7 $\frac{1}{8}$ x 5-6", similar to ICICLE but thicker, larger, and much later. Sometimes used as a winter radish.

Tops: Medium, much larger than ICICLE and other bunching varieties.

WHITE STUTTGART (GIANT STUTTGART) 40-45 days

Roots: Late summer and fall type; 2-3" in diameter, short topped or turnip shape, smooth white skin, crisp white flesh, mildly pungent; holds crispness well.

Tops: Large.

WHITE VIENNA (LADYFINGER) 29-30 days

Roots: 1 $\frac{1}{2}$ -5 $\frac{1}{8}$ x 6 $\frac{1}{2}$ -7 $\frac{1}{2}$ ", long, slender, long tapering; transparent white skin and flesh; crisp and tender.

Tops: Medium large.

WOODRUFF'S BEAUTY 21-23 days

Roots: Very choice selection of SCARLET GLOBE type; exceptional uniformity; best early radish at present.

Tops: Short, uniform, excellent early market radish.

LATE OR WINTER VARIETIES

CELESTIAL (CHINESE WHITE WINTER, CALIFORNIA MAMMOTH WHITE) 57-62 days

Roots: 2½-3 x 8-10", long cylindrical, square shoulder, and blunt tip with tendency to bulge in midsection; creamy white skin, with crisp, solid, snowy white, mildly pungent flesh.
Tops: Very large, coarse, cut leaf.

CHINA ROSE WINTER (SCARLET CHINA) 50-54 days

Roots: 2 x 7-8" slightly pyriform, blunt, smooth, bright rose, flesh white and pungent.
Tops: Large, coarse.

HALF LONG GRAY 54-59 days

Roots: 2-3" at shoulder x 4-5" long, tapered; grayish black skin and white, moderately pungent flesh; good winter type.
Tops: Large, coarse.

LONG BLACK SPANISH 55-60 days

Roots: Long winter type; 2-2½ x 7-10"; long cylindrical with tapered tips; skin black and roughened; flesh white, pungent, crisp and solid.
Tops: Very large, coarse, cut leaf.

ROUND BLACK SPANISH 53-58 days

Roots: Choice winter type; 4-5" in diameter, globular to thick shape, with small to medium tap root; jet black, fairly smooth skin, flesh snowy white, crisp, pungent.
Tops: Large, coarse, cut leaf.

R H U B A R B

Rheum rhabarbarum

MYATT'S LINNAEUS

Produces fine flavored, large, long stalks in second early season.

MYATT'S VICTORIA

Vigorous growing main crop variety, producing excellent quality, thick red stalks.

S A L S I F Y (V E G E T A B L E O Y S T E R)

Tragopogon porrifolius

MAMMOTH SANDWICH ISLAND 150-180 days

Commonly cultivated variety; slow growing, hardy; long tapering fleshy roots, creamy white; stores well. Used in soups, giving flavor similar to oysters.

SORREL

Rumex acetosa

NARROW LEAF (SILVER LEAF) 55-70 days

Plants produce long, slender, bright apple green to medium green, thick, curled-edge leaves of mildly acid flavor.

SPINACH

Spinacia oleracea

(p.s. means "prickly seeded"; r.s. means "round seeded.")

★BLOOMSDALE EXTRA DARK GREEN r.s. 39-42 days

A special and extra dark green strain of BLOOMSDALE Spinach. It resembles RESELECTED BLOOMSDALE, but it is more uniform and will stand longer, besides having a darker color.

★BLOOMSDALE LONG STANDING r.s. 42-45 days

Plants: Erect, compact, vigorous grower, bolts 10-14 days later than regular BLOOMSDALE RESELECTED.

Leaves: Thick, glossy, dark green, medium large, heavily savoyed and crumpled, rounded, incurved tip, tender, good quality.

BLOOMSDALE RESELECTED r.s. 39-42 days

Plants: Erect, compact, vigorous, bolts 2-4 days later than VIRGINIA BLIGHT RESISTANT SAVOY. fast growing early in spring.

Leaves: Medium thick, glossy dark green, medium size, less savoyed than BLOOMSDALE LONG STANDING, lanceolate leaves appearing oval because of incurved edges, moderately tender, good quality.

DOMINO r.s. 36-40 days

A blight resistant variety developed at the Virginia Truck Experiment Station by the late Dr. H. H. Zimmerly, the result of a cross between OLD DOMINION and NOBEL.

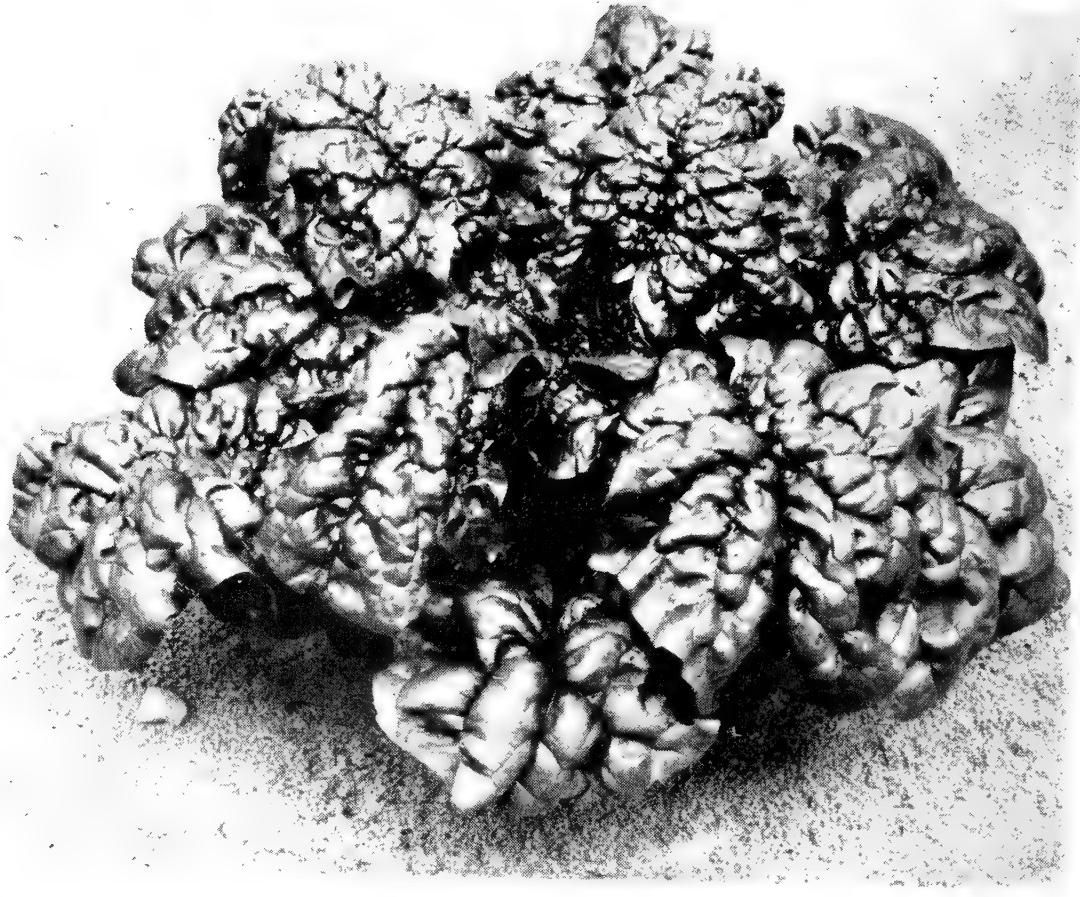
Plants: Large, flat growing, with well filled center. Grows rapidly, bolts early. Does best as a fall crop.

Leaves: Long, broad and thick, with rounded to pointed tip. Slightly curved. Not as heavily savoyed as either VIRGINIA SAVOY or OLD DOMINION.

HARLEM MARKET (PRESTO) p.s. 40-43 days

Plants: More erect and vigorous than LONG STANDING BLOOMSDALE, but otherwise very similar in type; very long standing type, usually holding a day or two longer than LONG STANDING BLOOMSDALE.

Leaves: Very similar in type to BLOOMSDALE LONG STANDING, glossy dark green, very thick and extremely crumpled leaf, rounded incurved tip, tender, good quality.



BLOOMSDALE LONG STANDING

★**HEAVY PACK (VIKING, NORTHLAND)** r.s. ALL-AMERICA SELECTIONS Silver Medal 1935 44-46 days
Plants: Very vigorous, very large and spreading, but not flat, very slow bolting; leading canning variety because of heavy yield.
Leaves: Very large, broad, arrow shaped with rounded tip, thickest of all large leaved varieties, dark green, partially crumpled.

★**HICURL** r.s. 46-48 days
Plants: Very erect, medium long petioled type selected to keep foliage clear of ground under all conditions Compact and dense in center. This variety has been selected for ability to remain free of bolters for a longer time than LONG STANDING BLOOMSDALE.
Leaves: Thicker than BLOOMSDALE. Large, very dark glossy green. Heavy blister, savoy rounded, recurved tips, tender, good quality.
The very long standing HICURL Spinach is an improvement over LONG STANDING BLOOMSDALE because of more erect habit, high cutting position for mechanical harvesting, and clean dirt free leaves for the market gardener and canner.

★HOLLANDIA (PRICKLY WINTER) p.s. 43-46 days

Plants: Almost flat, spreading, vigorous, open habit, bolts earlier than most long standing types.

Leaves: Thin to medium thick, medium to dark green, large, broad, arrow shaped, smooth to slightly crumpled, pointed tip, tender, good quality. Used chiefly in Far West for canning and freezing.

JULIANA r.s. 48-51 days

Plants: Semi-spreading, very compact, small, slow growing, very slow bolting

Leaves: Very thick, very dark blue green, medium size, well savoyed, lightly crumpled, rounded tip, rounded oval shape, tender, crisp, excellent quality. Exceptional variety for home garden or market as late crop.

★KING OF DENMARK (ANTVORSKOF) r.s. 45-48 days

Plants: Very large, open, spreading and flat, slowest bolting of all varieties.

Leaves: Medium sized, arrow shaped leaves with rounded tips on very long petioles, very dark glossy green, smooth, thick and tender.

NEW ZEALAND (EVERBEARING) *Tetragonia expansa*.

Not a true spinach. Large, much branched, spreading plant produces succession of small, very thick and fleshy, pointed leaves on round, fleshy stems. Leaves and tips of branches are picked for cooking like Spinach. Vigorous grower and especially heat and drought tolerant. Seeds are large, horned, chocolate brown, slow germinating.

★NOBEL GIANT LEAVED (GIANT THICK LEAVED) r.s.

ALL-AMERICA SELECTIONS Silver Medal 1933 45-48 days

Plants: Semi-erect to flat, spreading, hardy, vigorous growth, more productive than HOLLANDIA and also slower bolting.

Leaves: Medium thick, medium green, very large, broad, smooth with slight crumpling, tapered to rounded tip, good quality. Best of large smooth leaved type. Similar varieties are GAUDRY, GIANT FILLBASKET, and MATADOR.

★OLD DOMINION r.s. 40-42 days

Plants: Semi-erect, loose, not as heavy leaved as BLOOMSDALE LONG STANDING, rapid grower in early spring; slower bolting than regular BLOOMSDALE SAVOY, but not as long standing as LONG STANDING BLOOMSDALE. Very resistant to cold and used mostly for fall planting. Blight-resistant.

Leaves: Medium thick, dark green, moderately crumpled, medium broad, tapering to point, tender, good quality.

ROUND THICK LEAF (VIROFLAY, MONSTROUS VIROFLAY, ARAGON) r.s. 43-46 days

Plants: Spreading, flat, large, fast growing, quick bolting.

Leaves: Medium thick to thick, medium green, large, broad, arrow shaped, young leaves partially crumpled becoming smooth with age, fairly tender. Used in West and Southwest for early market and to a limited extent for canning.



HEAVY PACK

SUMMER SAVOY r.s. ALL-AMERICA SELECTIONS Bronze Medal 1937 42-45 days
A new and better strain of LONG STANDING BLOOMSDALE or SAVOY. It has a darker green color, greater uniformity of plant growth and will stand several days longer without bolting to seed.

★VIRGINIA BLIGHT RESISTANT (BLOOMSDALE BLIGHT RESISTANT) r.s. 36-40 days

Plants: Erect, fairly compact, sparser leaved than LONG STANDING BLOOMSDALE, very rapidly maturing spring strain, resistant to cold; used for fall planting

Leaves: Medium thick, medium dark green, moderately crumpled, medium broad, tapering to rounded point.

S Q U A S H

Cucurbita spp.

BUSH OR SUMMER VARIETIES

BANANA

Fruits: 20-24" long, 6" in diameter. Cylindrical, smooth greenish gray, pointed at blossom end.

Flesh: Orange yellow, thick, sweet, firm and solid, free from fiber. Used for pies.

BENNING GREEN TINTED SCALLOP 52-56 days

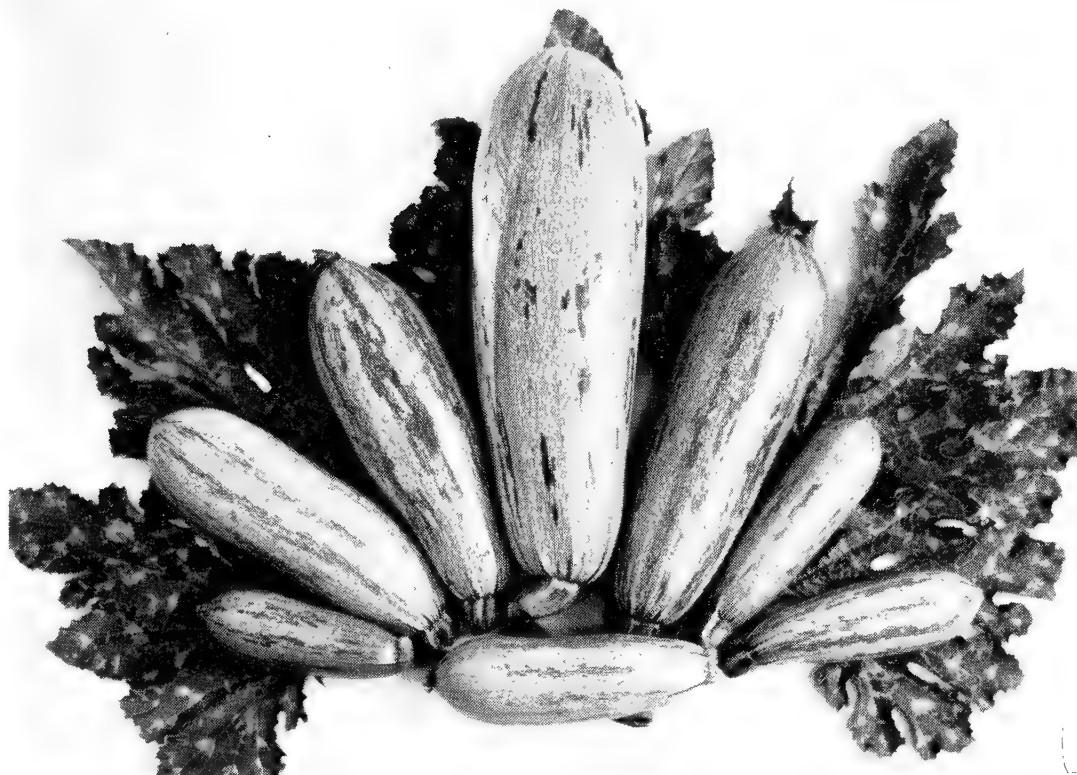
Fruits: Same as EARLY WHITE BUSH SCALLOP, but pale green tinted when young, becoming pale buff at mature seed stage.

Flesh: Green tinted white, tender, juicy.

BLACK ZUCCHINI 60-64 days

Fruits: 10-12" long x 3-3½" in diameter, cylindrical with square ends, ridged at stem end, similar in type to COCOZELLE, but dark greenish-black color over all.

Flesh: Greenish white, well flavored.



CASERTA

CASERTA ALL-AMERICA SELECTIONS Gold Medal 1949 50 days

Fruits; 6-7" long by 1-1¼" thick at the market stage; light, glossy green with broken stripes of dark green. In the market it appears fresh long after picking.

Plant: Bush type. 30 fruits per plant are not unusual. Its deeply cut leaves make it resistant to wind damage.

Developed by Dr. L. C. Curtis and introduced by us, this is of the COCOZELLE type but is earlier and much more prolific.

COCOZZA LOUNGA *Lagenaria leucantha* var. *longissima*.

Fruits: 48-60" long x 6" in diameter, spatulate, edible fruit, cylindrical, very pale uniform green. The fruits must be eaten when very young and fruit soon becomes fibrous and hard shelled.

Flesh: Creamy white with slight green tinge under skin.

This is not a true squash, but is actually a gourd known commonly as "Hercules Club".

COCOZELLE VEGETABLE MARROW (ITALIAN VEGETABLE MARROW, COCOZELLA DI NAPOLI) 60-64 days

Fruits: 14-18" long x 3½-4½" in diameter, long cylindrical, straight prominent ridges at stem end, alternately striped dark and light green in edible stage, becoming dark green and dull yellow at maturity.

Flesh: Tender, juicy, fine flavored, white in edible stage.

CONNECTICUT STRAIGHTNECK, LEMON COLOR

ALL-AMERICA AWARD SELECTIONS Honorable Mention 1939 50-54 days

Fruits: 8-10" long x 2½-3" apical diameter, straight sided, tapering slightly toward stem end, square tip with prominent blossom scar, moderately warted, pale or lemon yellow color in edible stage, occasionally green tinged, becomes medium yellow in mature seed stage. While not as prolific as EARLY PROLIFIC STRAIGHTNECK, this variety yields more pounds of early fruit. Being a massed-inbred variety, the plants are smaller and can be planted closer than other bush types. Developed by L. C. Curtis of the Connecticut Agricultural Experiment Station.

Flesh: Creamy yellow, tender, flavorful.

EARLY PROLIFIC STRAIGHTNECK

ALL-AMERICA AWARD SELECTIONS

Silver Medal 1938

51-55 days

Fruits: Inbred strain of GIANT STRAIGHTNECK and, like CONNECTICUT STRAIGHTNECK, small plant, permitting thicker stand. 8-10" long x 2-2", largest diameter, long, slender pear shape with rounded or abruptly tapered tip, smooth or sparsely warted; light yellow in edible stage becoming deep golden yellow in mature seed stage.

Flesh: Creamy yellow, excellent quality, firm.

EARLY SUMMER CROOKNECK

52-56 days

Fruits: 8-10" long x 2½-3" largest diameter, long slim-pear shaped with curved neck, heavily warted, medium yellow in edible stage becoming dark or orange-yellow when mature for seed.

Flesh: Creamy white, fairly firm, juicy in edible stage.

EARLY WHITE BUSH SCALLOP (PATTY PAN)

52-56 days

Fruits: 2½-3" deep x 5-7" in diameter in edible stage, disk or flared-bowl shape with prominent ribbing on edge of flare which gives scalloped appearance; creamy white in edible stage becoming chalky white at mature seed stage.

Flesh: Green tinged white, tender, juicy.

EARLY YELLOW BUSH SCALLOP (YELLOW PATTY PAN) 52-56 days

Fruits: Same as EARLY WHITE BUSH SCALLOP but light to medium yellow in edible stage, becoming dull, golden yellow in mature seed stage.

Flesh: Creamy white, tender, juicy.

ENGLISH VEGETABLE MARROW BUSH 55-60 days

Fruits: 10-12" long x 3½-4" in diameter, cylindrical to slightly tapered towards stem, faint ribbing with smooth skin, pale greenish white.

FORDHOOK BUSH 62 days

Fruits: 1½-2 lbs., tapered toward stem, smooth, cream colored, slight ribbed.

Flesh: Light yellow, very thick, dry, and sweet. This is bush strain.

**BUTTERNUT**

FORDHOOK Vining	62 days
This is the same as FORDHOOK BUSH except that it produces a vine rather than a bush.	
GRAY ZUCCHINI	60 days
Fruits: Nearly cylindrical, straight, 18" long 4" diameter, medium green, with grayish mottling.	
Flesh: Firm, good flavor.	
GREEN ZUCCHINI	60-62 days
Same as BLACK ZUCCHINI except that just a little lighter skin color.	
GIANT SUMMER CROOKNECK	59-65 days
Fruits: Larger fruited and later than EARLY SUMMER CROOKNECK but the same type; 9-12" long x 3-3½" largest diameter at edible stage, becoming much larger at maturity.	
Flesh: Same as EARLY SUMMER CROOKNECK.	
GIANT SUMMER STRAIGHTNECK	59-65 days
Fruits: Same type as GIANT SUMMER CROOKNECK but 35-90% of fruits are straight instead of curved, making more desirable market type for some sections.	
Flesh: Same as EARLY SUMMER CROOKNECK.	
MAMMOTH WHITE BUSH SCALLOP	56-60 days
Fruits: Same as EARLY WHITE BUSH SCALLOP but later and larger.	
Flesh: Same as EARLY WHITE BUSH SCALLOP.	
MAMMOTH YELLOW BUSH SCALLOP (GOLDEN CUSTARD)	56-60 days
Fruits: Same as MAMMOTH WHITE BUSH SCALLOP, but yellow.	
Flesh: Same as EARLY YELLOW BUSH SCALLOP.	
WOOD'S PROLIFIC	52-56 days
Fruits: Selection of EARLY WHITE BUSH SCALLOP of same general plant habit and fruit type. Selection made for deeper fruit and absence of ribbing on flange, giving fairly smooth, deep-bowl shape.	
Flesh: Same as EARLY WHITE BUSH SCALLOP.	
YANKEE HYBRID <small>ALL-AMERICA SELECTIONS</small>	Bronze Medal 1941 . 50-54 days
This is a true single-cross hybrid, like the hybrid corns. The parents are an inbred strain of CONNECTICUT STRAIGHTNECK and an inbred strain of EARLY PROLIFIC STRAIGHTNECK. The hybrid and the parent inbreds were all developed by Dr. L. C. Curtis of the Connecticut Station. The plant and fruit characters are intermediate between the parental types and the hybrid vigor or heterosis in this hybrid is seen not only in a little larger, more vigorous plant, but chiefly in a more prolific development of early fruits. Because of this, YANKEE HYBRID is a very valuable and distinctive contribution to gardeners who want heavy yields on the earliest market.	

WINTER OR Vining TYPES

BLUE BANANA 105-115 days

Fruits: 18-20" long, 5-6" in diameter, long, nearly cylindrical, long convex-curved taper at both ends, weigh 10-12 lbs., skin medium hard and smooth, slatey blue green.

Flesh: Medium thick, orange yellow, very fine textured, dry, fairly good quality; stores well.

BLUE HUBBARD 110-120 days

Fruits: 15-18" long, 9-12" largest diameter, bulged fusiform or cigar-shaped with symmetrical necks on both ends, weigh 12-18 lbs., slatey blue, skin very hard, thick and coarsely warted with irregular ribbing.

Flesh: Thick to very thick, dull orange, fine textured, moderately dry and sweet, good flavor and quality.

BOSTON MARROW 97-100 days

Fruits: 12-15" long, 9-12" diameter; similar to HUBBARD in size and shape, weigh 7-9 lbs., hard, rough, dull orange skin.

Flesh: Thick, orange-tinged golden, thick, moist, fine grained, sweet.

BUTTERCUP 100 days

Fruits: 6-8" in diameter, medium small, 3-4 lbs, shaped like a turban, slightly ribbed, dark green, faintly striped, slight mottling. Thin tough rind.

Flesh: Deep yellow to orange, dry, sweet, fine grained, excellent flavor. Developed by Dr. Yeager of North Dakota Agricultural College. It is highly productive and keeps well.

★BUTTERNUT 95-102 days

Fruits: 10-12" long, 4-5" in largest diameter, long pear shape, dull pale orange, weigh 3½-5 lbs., skin smooth and hard.

Flesh: Very thick, seed cavity only in bulbous end, very dry, ivory white, excellent flavor and quality, ideal home garden baking type. Very popular in the East.

DELICATA (SWEET POTATO) 80-90 days

Fruits: 8-10" long, 3½-4½" in diameter, weigh 2-3½ lbs., cylindrical with narrow, shallow ribbing, alternate striping of cream and dark green, becoming cream and orange striped during storage; shell medium hard.

Flesh: Thin to medium, orange-yellow, very fine texture, crispy, dry tender, sweet, good flavor and quality; stores well.

★GOLDEN DELICIOUS 100-105 days

Fruits: 10-12" long 8-10" diameter, top shaped, bright reddish or tangerine orange with occasional green splotches at blossom end; weigh 6-9 lbs.; skin hard and smooth.

Flesh: Thick, deep orange, medium grained, dry with high starch content, excellent flavor; widely used for canning and freezing.

★GOLDEN HUBBARD (RED HUBBARD) 98-103 days
Fruits: 10-12" long, 7-9" diameter, typical HUBBARD shape with symmetrical "neck" on both ends, weigh 8-10 lbs.; skin hard, covered with large shallow warts, reddish orange skin with grayed stripes at blossom end.

Flesh: Thick, deep orange yellow, fine grained, dry; excellent quality for canning and freezing.

GREEN DELICIOUS 100-105 days
Fruits: Same as GOLDEN DELICIOUS except for skin color, which is very dark green with thin, light green stripe at blossom end.
Flesh: Same as GOLDEN DELICIOUS, but color is not as intense an orange. Excellent keeper.

IMPROVED HUBBARD (GREEN HUBBARD) 105-115 days
Fruits: 12-15" long, 8-10" largest diameter, globular with taper at both ends, weigh 9-12 lbs.; dark ivy green frequently striped at tip with paler green, becomes bronzy green at maturity or during storage; skin very hard and thick, broad shallow irregular ribbing with moderately shallow wartting.

Flesh: Medium thick to thick, deep yellow, dry, very fine grained, sweet, crisp and tender, well flavored, good quality.

MAMMOTH TABLE QUEEN 90-100 days
Fruits: 7-8" long, 5-5½" in largest diameter, weigh 2-3 lbs., large fruited strain of TABLE QUEEN which is similar in shape and color.
Flesh: Medium thick, pale orange, tender, dry, sweet, flavorful; good keeper.



UCONN

PINK BANANA 105 days

Fruits: Similar to regular BANANA except exterior is deep pink.

Flesh: Thick, solid, free from fiber, orange yellow, sweet.

TABLE QUEEN (DES MOINES, ACORN, YAMA) . . . 90-100 days

Fruits: 5-6" long, 4-4½" largest diameter, weigh 1-1½ lbs., acorn shape with prominent ribbing, very dark greenish black; smooth, fairly thin skin.

Flesh: Thin, pale orange to deep yellow, tender, fairly dry and sweet with good flavor. Old variety popular as individual baker; keeps fairly well.

UCONN ALL-AMERICA SELECTIONS Gold Medal 1950.

Fruits: ACORN or TABLE QUEEN type, green skin, yellow flesh, but ridges more rounded than TABLE QUEEN.

Plant: Bush type, occupying a space about 3 x 3'.

Yield: 9 plants should produce a bushel of mature fruits.

Developed by Dr. L. C. Curtis, this variety should appeal where space is limited.

WARREN TURBAN 115-125 days

Fruits: 8-10" long, 12-15" in diameter, weigh 14-20 lbs., drum shaped with distinct navel at blossom scar, bright reddish orange with scattered grayish striping at blossom end, navel is slatey blue; shell very hard, thick and heavily warted with fine warting.

Flesh: Thick at sides and blossom end, very thick at stem end, bright orange, brittle, sweet, fairly dry, good flavor and quality.

WARTED HUBBARD (CHICAGO WARTED HUBBARD) 110-120 days

Fruits: 12-14" long, 10-12" largest diameter, weigh 12-15 lbs., large fruited IMPROVED HUBBARD with heavy warting.

Flesh: Same as IMPROVED HUBBARD.

TOMATO

Lycopersicon esculentum

RED FRUITED or YELLOW SKINNED, RED FLESHED VARIETIES**BONNY BEST** 64-74 days

Fruits: Bright scarlet, medium size, average 4½-5½ oz., smooth, flattened globe with index about 0.75, small cored, solid flesh, free from circular cracking, although radial cracks are occasionally found; 5-7 locules.

Vines: Medium sized plants, medium amount of semi-erect and spreading foliage, giving fair coverage to fruit, medium green, productive.

BOUNTY 60-70 days

Fruits: Scarlet, medium small, average 4½-4¾ oz., smooth, uniformly globular, with index about 1.00, shallow, small core, cracks under extreme variations of dry and wet weather, 4-5 locules; carries uniform ripening gene and consequently has no dark green color around stem.

Vines: Very small, determinate, fair foliage, although poor coverage because of prolific set. Of same parentage as VICTOR but not the same; developed by Dr. A. F. Yeager and Mr. Harold Mattson of the North Dakota Agricultural Experiment Station.

BREAK O'DAY 62-72 days
Fruits: Orange-red, medium large, average $5\frac{1}{2}$ - $6\frac{1}{2}$ oz., smooth, irregularly globe shaped with index about 0.95; medium large core, fairly fleshy, only radial cracking and that very rarely, 4-6 locules, slow ripening and sun-scalding of stem ends are handicaps of this variety.
Vines: Medium large plant, coarse, medium dense foliage, open and spreading giving poor coverage. Early market strain because of wilt and nail-head resistance, earliness and freedom from cracking.

CHALK'S EARLY JEWEL 64-74 days
Almost identical with BONNY BEST. Under some conditions foliage is coarser and more spreading than BONNY BEST.

CLARK'S EARLY 63-73 days
Fruits: Scarlet, medium large, average $5\frac{1}{2}$ - $6\frac{1}{2}$ oz., smooth, globular with index of about 0.88, small core, firm fleshed, free from cracking; 5-7 locules.
Vines: Similar to but more vigorous than BONNY BEST. Used in South for early tomato.

CRIMSON CUSHION (BEEFSTEAK, ENORMOUS, RED PONDEROSA) 90-100 days
Fruits: Same characteristics as PONDEROSA but scarlet color; usually less irregular in shape.
Vines: Same as PONDEROSA.

DWARF STONE 86-95 days
Fruits: Red, medium to medium large and of STONE type.
Vines: Dwarfed, sprawling, very compact bush with dense foliage and moderate fruit set, dark green.

EARLIANA 60-69 days
Fruits: Scarlet, medium size, average $4\frac{1}{2}$ - $5\frac{1}{2}$ oz., usually smooth, distinct oblate with index about 0.68, irregular and variable, medium core, fairly fleshy, very susceptible to concentric ringing and moderate amount of radial cracking, 9-12 irregular locules.
Vines: Small to medium plant, sprawling and open, with sparse to medium foliage, light green, prolific.

FIRESTEEL 60-70 days
Fruits: Scarlet red, medium size, average $4\frac{3}{4}$ - $5\frac{1}{2}$ oz., smooth, almost globular, with index about 0.90, small core, very firm and fleshy, practically no cracking, very uniform type, 4-5 locules.
Vines: Small to medium plant, fairly dense, giving fair coverage during early part of season when most of crop is matured, prolific.

GARDEN STATE 80 days
Fruits: Scarlet red, deep flat shape, thick walled, mild flavor. It has excellent quality and ripens uniformly.
Vines: Vigorous, compact, upright, partially resistant to late blight and fusarium wilt. Developed by Campbell Soup Company, popular as a processing tomato.

GEM (GENEVA NO. 2) 65-75 days

Fruits: Deep oblate, medium to large, slightly flattened on sides, ripen uniformly to good intermediate red.

Vines: Determinate growth, small and compact. Fruits set freely on crown sets. Should be heavily fertilized or planted on rich ground with good moisture retaining ability, adapted for northern New York and Canada.

GENEVA SEVEN 65-75 days

Fruits: Medium size, approximately 5 ounces, slightly flattened globe, no ribbing, very small blossom and stem scars, uniform ripening to a good medium red, thick walls and small core.

Vine: Medium to small, indeterminate, 4-5 foot spread. Plants require high fertility to respond to close economical planting. An early maturing variety with a heavy set at the crown and a rather large number of fruits per cluster. Valuable to a market gardener requiring a medium sized fruit or a canner interested in extending the packing season.

GREATER BALTIMORE 73-83 days

Fruits: Deep scarlet red, medium large to large, average 6-7½ oz., distinctly flattened globe with many fruits elliptical in cross section, index about 0.70; shallow hard core immediately below stem, with fruit usually multi-loculed or developing locules in central portion of fruit under stem, solid flesh and firm fruit, free from circular cracks, but radial cracks and splitting frequently found; 6-9 locules; one of leading canning varieties.

Vines: Large, bushy, spreading, foliage not as dense as MARGLOBE nor as coarse as RUTGERS, moderate coverage; usually productive under wide variety of conditions.



LAKELAND

GREATERT BALTIMORE, INDIANA STRAIN (INDIANA BALTIMORE)

73-83 days

Fruits: Very similar in type to GREATER BALTIMORE, but more globular, slightly smaller, smoother fruited.

Vines: Same as GREATER BALTIMORE, with denser and less spreading foliage, giving less sun scald in the Middle West.

GROTHEN'S GLOBE

66-75 days

Fruits: Deep scarlet, medium large, average 6-7 oz., smooth, globular, with index about 0.85, medium large pulpy core, solid and firm fleshed, free from cracking; 6-8 locules. Greatly improved BREAK O'DAY type.

Vines: Large, vigorous, spreading, similar to BREAK O'DAY but coarser, denser foliage, affording protection from sun scald, dark green, productive.

IMPROVED PEARSON "C"

85 days

Fruits: Large, smooth, semiglobe, and bright red in color.

Vines: Prolific, self-topping. An improvement of the original PEARSON developed at the College of Agriculture, California. Popular for canning.

JOHN BAER

64-74 days

Almost identical with BONNY BEST. Under some environments the foliage is denser, a little darker green and slightly heavier stemmed.

LAKELAND

65-70 days

Fruits: Globe or slightly flattened globe, first fruits average about 6 oz., later ones 4-5 oz., seed cells medium to large, thick cell and exterior walls (good for green-wrap). Small stem scar, small to medium blossom scar. Free from radial and practically free from circumferential cracking. A heavy producer.

Vines: Medium size, vigorous, fair to good coverage. Fruits bleach just before ripening, indicating readiness for picking for green-wrap. Slightly less susceptible than RUTGERS to fusarium and mosaic. Sets well in wet or dry growing season, but does not do well in a wet harvest season.

LONG RED (GENEVA NO. 5)

75-85 days

Fruits: Solid, heavy, 6-8 oz., globular to deep globular, smooth, small scar, and shallow basin at stem end. Thick walls, central mass solid with red color.

Plants: Medium; with spread of 4-5½ feet, many branches. Small to medium leaves but abundant and remain in good condition late in the season. Adapted to northern New York and Canada.

MARGLOBE

70-80 days

Fruits: Deep scarlet, medium, large, average 6-7 oz., smooth, slightly oblate or almost globular, with index about 0.87, medium large pulpy core, very solid, free from circular cracking and radial cracks rarely found; 6-8 locules.

Vines: Large plants, vigorous, erect and bushy foliage, giving good coverage to fruits, medium green, productive. Resistant to fusarium wilt.

MICHIGAN STATE FORCING (Wilt Resistant) 80-85 days

Fruits: Deep scarlet, medium size, 3-5 oz., oblate globe, smooth at stem end, small blossom scar, firm with very little core.

Plant: Sturdy, moderately compact, highly productive with fruits borne in clusters of five or more.

Developed by Michigan State College especially for greenhouse growing under reduced daylight conditions. One of the best of forcing varieties and adapted to outdoor growing in many areas.

PAN AMERICA 67-75 days

Fruits: Bright scarlet, medium large, average 6-7 oz., smooth, globular to deep oblate with index about 0.86, small core, moderately thick flesh, very thick outer wall, almost free of cracking, 5-8 locules.

Vines: Similar to MARGLOBE but smaller leaved. Good coverage of medium dark green leaves. Developed by W. S. Porte of U.S.D.A. for high resistance to nailhead rust and moderate resistance to wilt.

PENN HEART 60-69 days

Fruits: Similar to EARLIANA though more nearly globular and colors up better at the stem end, fewer seeds and a low jelly content.

Vines: Similar to EARLIANA.

PRITCHARD (SCARLET TOPPER)  Gold Medal 1933
67-76 days

Fruits: Medium scarlet, medium size, average 5-6 oz., smooth, almost globular and characteristically show prominent shoulder; index about 0.85, medium sized pulpy core, solid, free from cracking, milder flavor than MARGLOBE; 5-7 locules.

Vines: Distinctly bushy because of self-pruning or self-topping character; heavy stem and coarser foliage than MARGLOBE, medium dark green, very productive.

RED CAP 62-72 days

Fruits: Red, medium size, average 4½-5½ oz., smooth, deep flat globe with index about 0.85, small core, medium thick flesh with thick walls, heavy, juicy, occasionally cracks radially, 5-7 locules, fairly uniform.

Vines: Medium size plants, medium coarse foliage, fairly compact and dense, gives good coverage, usually productive in northern areas, hardy and vigorous.

RED JACKET (GENEVA NO. 3) 75-85 days

Fruits: Large 5-8 oz. Viewed from the side they are slightly oblong and flattened. In cross section the side walls appear slightly thin, but the central mass is filled in solid. Rich scarlet red inside color.

Vines: Vigorous, large "potato" leaves, dense foliage offering good fruit protection, spreads 3½-5'. Many branches with blossoms free setting. Adapted to northern New York and Canada.



RUTGERS

RUTGERS

73-83 days

Fruits: Deep or dark scarlet, medium large, average $6\frac{1}{2}$ -8 oz., deep oblate with tendency to ridging, index about 0.85, very large pulpy core of almost same intense color as outer surface of fruit; very sparse seeder with locules compressed against outer wall of fruit, very solid and firm; no circular cracking and rarely found with radial cracks; milder flavor than MARGLOBE; 6-8 locules.

Vines: Heavy, vigorous, bushy growth, coarser foliage than MARGLOBE, medium dark green, very productive.

SCARLET DAWN

ALL-AMERICA SELECTIONS

Gold Medal 1935

63-73 days

Fruits: Bright scarlet, full ripe color to stem end, smooth globular; index about 0.85, medium sized fleshy core, thick walled, solid, rarely shows cracking; 5-7 locules.

Vines: Medium size, with spreading branches, moderately coarse open foliage which affords fair coverage; medium green, prolific.

SIOUX

70 days

Fruits: Red, globular, thick walled, medium size, juicy, good flavor.

Vines: Open, leaves are finely divided. Developed at the Nebraska Experiment Station. Ripens uniformly.

SOUTHLAND

70-75 days

Fruits: Average $6\frac{1}{2}$ -8 oz., about $2\frac{3}{4}$ " in diameter by $2\frac{1}{8}$ " deep, deep red, average weight .34 lb. Multi-locular, large core, does not carry the even-ripening gene, has some circumferential cracks.

Vines: Spreading, adequate coverage, hold up well because of resistance to early blight. Considerable resistance to late blight and blossom end rot, nearly immune to fusarium wilt and highly resistant to collar rot.

Developed by the Regional Vegetable Breeding Laboratory at Charleston, S. C., for the South, where it should be favored for canning, shipping and home gardens.

STOKESDALE 66-75 days

Fruits: Bright scarlet, medium size, average 5½-6 oz., smooth, almost globe shape; index about 0.90, large pulpy core, solid flesh, free from cracking; 5-7 locules. Suitable for canning in northern areas.

Vines: Medium sized, with moderate amount of semi-erect and spreading, coarse foliage which gives fair coverage, medium green, productive.

STONE 78-89 days

Fruits: Scarlet, large, average 7-8 oz., smooth, irregular, flat globe with index about 0.76, medium to large core, fleshy, firm, occasionally cracks; 7-9 irregular locules.

Vines: Large plant, heavy, erect foliage, very dense giving good coverage to peak of harvest, very dark green, productive, and vigorous.

VALIANT 70 days

Fruits: Bright scarlet, globe shaped, fairly large.

Vines: Open and sparse. Adapted to short season areas for early market.

VICTOR ALL-AMERICA SELECTIONS Bronze Medal 1941 60-70 days

Fruits: Scarlet, medium small, average 4½-4¾ oz., smooth, uniformly globular with index about 1.00, small shallow core, star cracks only under extreme variations of drought and wet weather; 4-5 locules; carries uniform ripening gene the same as BOUNTY.

Vines: Small, determinate or self topping, fair foliage with poor coverage because of excessively prolific set. Related to BOUNTY and released by Dr. A. F. Yeager at the Michigan Agricultural Experiment Station; usually little earlier than BOUNTY and heavier set of fruits.

WISCONSIN 55 66-75 days

Fruits: Very good color, slightly wider than deep, generally larger than STOKESDALE and with better color and quality. Quite free from cracking and ridging.

Vines: Vigorous under fertile conditions, somewhat tolerant of early blight. Sunscald is not usually a problem. Developed by the University of Wisconsin. Popular as a canning variety.

PINK FRUITED or COLORLESS SKINNED, RED FLESHED VARIETIES**BRIMMER (IMMENSE)** 85-94 days

Fruits: PONDEROSA type, pink, large, average 7-9 oz., smooth distinctly oblate with index about 0.65, small, shallow core, very fleshy with irregular cell structure. Occasional small radial cracks; 7-10 locules. Smoother, more uniform fruits than PONDEROSA.

Vines: Large plant with long indeterminate branches; medium dense foliage, semi-erect, giving good coverage under most conditions, medium gray green fairly productive.

DWARF CHAMPION (TREE)

Fruits: Deep pink, medium large, average $5\frac{1}{2}$ - $6\frac{1}{2}$ oz., fairly smooth, flat globe with index about 0.70, medium core, moderately thick and firm flesh, cracks and burns readily, but under average growth conditions is not too well covered; 4-6 locules. 84-93 days

Vines: Very distinctive, compact, dwarfed branches on heavy, erect, single stem, giving tree-like shape, dwarfed leaves, but very dense coverage, extreme dark green, sparse fruit set, easily damaged by aphid because of plant type.

EARLY DETROIT

Fruits: Carmine, medium large, average $5\frac{1}{2}$ - $6\frac{1}{2}$ oz., fairly smooth, deep flat globe with index about 0.78, shallow medium sized core, medium fleshy, firm, fairly susceptible to radial cracking, 5-7 locules. 79-88 days

Vines: Medium size plant, medium dense foliage gives moderate coverage, medium green, fairly productive.

GULF STATE MARKET

Fruits: Pink to carmine, medium large 5-6 oz., smooth, nearly globular with index about 0.86, small core, firm, fleshy, thick walled, only occasional radial cracking, 5-8 locules. Used in Gulf States for canning and green wrap shipping. 80-90 days

Vines: Medium sized plant, sprawling habit with up-curved tips giving moderately dense foliage and fair coverage, retarded indeterminate growth, giving appearance of being self-topping, dark yellow green, moderately productive.

JUNE PINK (PINK EARLIANA)

Fruits: Most easily described as a pink fruited EARLIANA. Fairly free from concentric ringing and radial cracking. 62-72 days

Vines: Very much like EARLIANA.

LIVINGSTON'S BEAUTY (BEAUTY, TRUCKER'S FAVORITE)

Fruits: Pink, medium large, average 6-7 oz., fairly smooth, flat globe with index about 0.72, small to medium core, large placenta, firm fleshed, cracks very rarely; 5-9 locules. 78-87 days

Vines: Large plant, heavy foliage, well branched, giving good coverage, medium green, very productive. This is an old variety noted for vigor and adaptability.

LIVINGSTON'S GLOBE (GLOBE)

Fruits: Bright carmine, medium large, average 6-7 oz., smooth, uniformly globular, with index about 1.00, shallow core, very fleshy and solid, almost never shows cracking; 5-7 locules. 74-83 days

Vines: Large, vigorous plant, medium dense foliage, gives fair to good coverage, fairly tolerant of heat and drought, dark yellow green, usually prolific and uniform.

LOUISIANA PINK

A strain of LIVINGSTON'S GLOBE developed by University of Louisiana for resistance to wilt and nail-head rust.

OXHEART 90-100 days

Fruits: Bright pink, large, average 8-12 oz., fairly smooth, pointed ovate or "oxheart" shape, with index 1.10 to 1.40, small to medium core, very heavy flesh and placental development making very small locules pressed against outer wall; almost never cracks; 5-9 locules.

Vines: Very large plant, coarse, dense foliage, spreading, with upcurved tips giving good coverage during early harvest; medium slatey green, sparse set except on high levels of fertility. Home garden and local market type, valued chiefly for fruit size and distinctive shape.

PONDEROSA 90-100 days

Fruits: Rose or purplish-pink, very large, average 8-11 oz., fairly smooth skin but irregular and variable shape, mostly distinct oblate with index 0.50 to 0.60, many fruits are oval in cross-section, medium to large core, very fleshy, often cracks and has ridged surface; 7-12 irregular locules.

Vines: Large plant, heavy coarse foliage, moderately dense, gives good coverage, very spreading and branched, medium green.

GOLDEN OXHEART (YELLOW OXHEART) 88-97 days

Fruits: Same as OXHEART, but bright golden yellow.

Vines: Same as OXHEART.

GOLDEN PONDEROSA (YELLOW PONDEROSA) 90-100 days

Fruits: Same as PONDEROSA but bright golden yellow.

Vines: Same as PONDEROSA.

GOLDEN QUEEN (TROPHY) 80-89 days

Fruits: Deep golden yellow, medium size, average 4½-5½ oz., smooth, occasionally becoming russeted and pink blushed on portions of fruit exposed to sunlight, deep flat globe with index about 0.85, small core, firm, meaty, rarely cracks, mild flavored; 4-6 locules.

Vines: Medium large plant, moderately dense foliage, giving good coverage, bright medium green, prolific, fairly heat and drought tolerant.

JUBILEE ALL-AMERICA SELECTIONS Bronze Medal 1943 80 days

Fruits: Large, globular, smooth, bright golden orange, mild flavored and of excellent quality. Interior meaty, thick walled and with few seeds.

MINGOLD ALL-AMERICA SELECTIONS Silver Medal 1940 74-83 days

Fruits: Bright golden yellow, medium size, average 4-5 oz., smooth, globular with index about 0.90, small core, fairly solid, no cracking; 4-5 locules, very uniform. Developed at Minnesota Agricultural Experiment Station as early prolific yellow variety.

Vines: Medium small, semi-spreading, medium dense foliage, giving fair coverage, medium green foliage, very prolific. Excellent home garden or local market strain where yellow fruit is desired.

SMALL FRUITED VARIETIES

LARGE RED PLUM

Fruits: Italian type, deep scarlet, small size, average 2-3 oz., ovate, with almost square cross section, index 1.7 to 2.2; usually 2 loculed characterized by pepper-like placenta separate and distinct from outer wall; thick fleshed, dry, deep scarlet. Used in paste and puree.

Vines: Medium sized, more erect than other varieties, somewhat open; fruit borne in clusters or hanks, very prolific.

RED CHERRY

Fruits: Scarlet, very small, being about cherry size, smooth globe; 2-3 locules. Used for preserving.

Vines: Large plant with spreading, much branched foliage, dense and dark green, very prolific.

RED PEAR

Fruits: Small distinct pear shape, otherwise same as RED CHERRY.

Vines: Same as RED CHERRY.

SAN MARZANO

Fruits: Scarlet red, 3½" long x 1½", two celled, and borne in clusters. Mild flavor and little juice.

Vines: Medium, somewhat open and upright, heavy yielding, deep green foliage. Used by canners for whole canning and tomato paste and puree.

STRAWBERRY (YELLOW HUSK, GROUND CHERRY, DWARF CAPE GOOSEBERRY) *Physalis pubescens*

Fruits: Deep golden yellow, very small, globular cherry size, 2 loculed, transparent dark yellow when dead ripe and very rich honey-like flavor; borne in paper-like husks. This member of the Nightshade family makes an excellent preserve.

Vines: Sprawling, medium size, smooth leaved, medium green, extremely prolific, heat and drought tolerant.

YELLOW CHERRY

Same fruit and vine as RED CHERRY but fruit color is dark yellow.

YELLOW PEAR

Fruit and vines same as RED PEAR, but fruit color is medium yellow.

YELLOW PLUM

Fruit and vines same as RED PLUM, but fruit color is medium yellow.

TURNIP

Brassica rapa

WHITE FLESHED VARIETIES

COWHORN (LONG WHITE) 70-75 days

Roots: 9-12 x 2½-3", long, tapered, white, light green shoulder on portion exposed above ground, fairly smooth, occasionally twisted roots, medium to large tap roots; flesh white, sweet and tender. Used chiefly for stock food but very palatable while small and young.

Tops: 18-22", medium green, erect, coarsely toothed leaves.

EARLY WHITE FLAT DUTCH 40-45 days

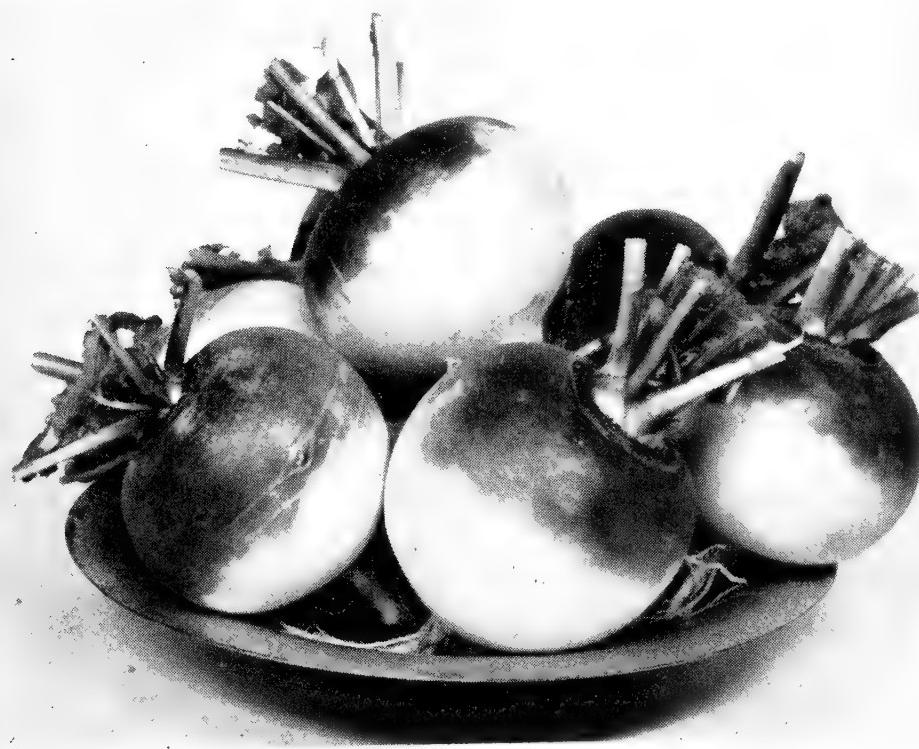
Roots: 1½-2 x 3½-4½", distinct flat globe, white, smooth, small tap root; flesh white, tender, fine grained, sweet. Early variety used in South for home garden and local market.

Tops: 10-14", medium green, strap leaved, erect, small collar.

POMERANIAN WHITE GLOBE (LARGE WHITE GLOBE, NORFOLK) 75-80 days

Roots: 4-5½" in diameter, globe to flattened globe, white skin and flesh; smooth, solid, moderately coarse textured.

Tops: 18-24", medium light green, semi-erect, cut leaved.



PURPLE TOP WHITE GLOBE

PURPLE TOP MILAN (EXTRA EARLY PURPLE TOP MILAN) 40-45 days
Roots: 3-4" in diameter, very flat, white with purplish-red tops, smooth, small tap root; flesh snow-white, tender, sweet. Excellent early home garden and forcing type.
Tops: 10-12", medium green, strap leaved, erect, small collar.

PURPLE TOP STRAP LEAVED (EARLY FLAT RED) . . . 45-48 days
Roots: 3½-5" in diameter, distinctly oblate, white with purple top on portion of root above ground, smooth, small tap root; flesh is snow-white, mild flavored, sweet.
Tops: 14-18", medium green, obovate strap leaved, erect, medium collar.

PURPLE TOP WHITE GLOBE (RED TOP WHITE GLOBE) . . . 58-63 days
Roots: 3½-4 x 3½-4½", globe to slightly flattened globe, clear white with purplish tinged red top, smooth, small tap root; flesh is snow white, tender and crisp; very succulent.
Tops: 12-16", medium green, notched, spiny leaves terminating in small, compact collar, which makes for erect growth.

SEVEN TOP (SOUTHERN PRIZE)

Grown as winter annual in South for greens; very prolific sprouting of leaves early in spring make rapid, tender growth and produce heavy yield of good quality foliage for food; roots are woody, tough and inedible.

SHOGOIN (JAPANESE FOLIAGE) 35-40 days
Roots: 2-4 x 1½-2½", medium size, oval, snowy white, mild, tender and crisp; useful as dual purpose crop for roots and greens.
Tops: 18-22" tall, bright green, strap leaved, vigorous and fast growing, heavy set of fine leaves, very erect from small collar, gives excellent quality greens; foliage partially resistant to aphids.

SNOWBALL (WHITE SIX WEEKS) 42-47 days
Roots: 2½-3" in diameter, globular, uniform, ivory white, smooth, small tap root; flesh juicy, crisp, sweet, fine-grained. Used as home garden and forcing strain.
Tops: 10-14", erect, medium yellow green, cut leaved.

WHITE EGG 52-57 days
Roots: 3-4 x 2½-3", ovate or egg-shaped, white, occasionally green tinged on exposed portion of shoulder, smooth, small tap root; flesh translucent white, tender, sweet.
Tops: 13-17", compact, erect, medium green, cut leaved, small collar.

WHITE MILAN (EXTRA EARLY WHITE MILAN) 40-45 days
Roots: Same as PURPLE TOP MILAN but clear white skin.
Tops: Same as PURPLE TOP MILAN.

YELLOW FLESHED VARIETIES

AMBER GLOBE (YELLOW GLOBE, YELLOW STONE) 73-76 days

Roots: 4½-6" in diameter, globular, yellow with bronzy tops, smooth, small to medium tap root; flesh creamy yellow, medium to coarse textured, good quality. Used chiefly for stock feed, but suitable for table use when young.

Tops: 15-19", green, erect, cut leaved.

GOLDEN BALL (ORANGE JELLY) 60-65 days

Roots: 3-4" in diameter, globular, deep yellow, smooth, small to medium tap root; flesh bright yellow, fine grained, solid, good quality. Used for home garden and local market.

PURPLE TOP YELLOW ABERDEEN 75-80 days

Roots: 4½-5½" in diameter, globular, medium yellow with purplish red shoulder, smooth, medium tap root; flesh light yellow, firm, high quality, good storage type. Chiefly grown for stock but also suitable for winter table use.

Tops: 16-20", medium blue green, broad, compact, coarsely toothed.

RUTABAGA or SWEDE

Brassica napobrassica

AMERICAN PURPLE TOP 85-90 days

Roots: 6-9 x 3½-5½", large, short top shape, buff with purple top; flesh firm, medium textured and light buff.

Tops: 16-20", vigorous, erect, medium blue green, smooth, cut leaved, based on medium collar; rarely necked at crown.

BUDLONG (BREADSTONE, WHITE ROCK, WHITE FRENCH) 82-86 days

Roots: 5-7 x 4-6", medium large, thick oval to globe shape, white with small green neck; flesh white, tasteful, fairly solid. Equally good for table use or stock feed.

Tops: 12-16", erect, blue green, smooth, cut leaved, based on small neck.

GOLDEN NECKLESS (EARLY NECKLESS) 80-84 days

Roots: 6-7 x 3½-4½", smaller, uniform earlier selection of AMERICAN PURPLE TOP.

Tops: Similar to, but smaller than AMERICAN PURPLE TOP.

LONG ISLAND IMPROVED, NEYLON STRAIN 85-90 days

Roots: 6-8 x 3½-5", large, short top, deep buff with purple top; flesh is firm, tender, fine textured and light buff. Our stock specially selected for uniformity of growth, sparseness of fibrous roots, and smoothness of skin.

Tops: 16-20", vigorous, hardy, erect, blue green; smooth, partially toothed leaves based on small neckless collar.

SWEET GERMAN (MACOMBER, SWEET RUSSIAN, WHITE SWEDEN)

Roots: 6-9 x 4½-6½", large, short, thick top shape, white with bronzed green shoulder, medium neck, flesh creamy white, solid, sweet. Used for winter storage for table use and stock feed.
Tops: 16-22", vigorous and hardy, semi-erect, dark blue green, cut leaved, based on medium neck.

89-92 days

WATERMELON

Citrullus vulgaris

ALABAMA SWEET (BRADFORD)

A medium early shipping variety for the South. Fruits weigh 25-30 lbs., are long, large, cylindrical, with a thin, tough rind which is medium green with broken stripes of darker green. The flesh is red, fine textured, stringless and sweet. The seed is medium size, mottled brown on an ivory white background.

90 days

BLACKLEE

An excellent southern shipping variety, highly resistant to fusarium wilt and good also for local trucking. The fruits are cylindrical and blocky, averaging about 30 lbs. It has a tough, thick dark green rind, and deep red flesh of the finest quality. The medium sized seeds are black.

95 days

BLUE RIBBON (BLUE RIBBON KLONDIKE)

A development from STRIPED KLONDIKE by the California Agricultural Experiment Station. Resistant to fusarium wilt, but otherwise similar to STRIPED KLONDIKE.

85 days

BLUE WATSON

A selection from TOM WATSON, which it resembles except that the rind is exceedingly dark green and the flesh a deeper red.

85 days

BURRELL'S GRAY

Fruits average about 40 lbs., oblong shape, with a light gray-green rind which is thin but tough enough to make the variety a very good shipper. The flesh is of good quality, sweet, bright red, with large brown splotched seeds.

90 days

CHILEAN BLACK SEEDED

A smallish, almost round melon of considerable popularity on the West Coast. Fruits weigh 15-18 lbs. and are medium green with darker green stripes. The rind is thin and tough. The flesh is bright red and the seeds black.

85 days

CHILEAN WHITE SEEDED

Same as CHILEAN BLACK SEEDED except for seed color.

85 days

CITRON, COLORADO RED SEEDED

A small, round melon, usually 7-8" in diameter, used for preserving. The flesh is white and is unpalatable in the raw state. Seeds are large and a pale red.

90-95 days

CITRON, GREEN SEEDED 90-95 days

Same as RED SEEDED CITRON, but slightly larger and with glossy green seeds.

CLETEX (SPOTTED WATSON) 90 days

A WATSON type of melon with a tough rind for distant shipping. The quality is excellent and fruits are large and cylindrical, weigh 30-35 lbs. The rind is a mottled dark green with a lighter green background. The seeds are brown.

COLE'S EARLY (HARRIS' EARLIEST) 75-80 days

An old standard northern variety for home garden and local markets. Fruits are broad oval, and weigh 15-20 lbs. The flesh is red and of fair quality. The rind is dark green with lighter green stripes, thin and tender. Seeds are black and of medium size.

CUBAN QUEEN 85-90 days

An old shipping variety with large, black seeds. The flesh is red and has fairly good flavor. Fruits weigh 25-30 lbs. and have a tough rind with alternating dark and light green irregular stripes.

CUT RED WATSON 85 days

A larger and tougher TOM WATSON, darker green and with no white hearts. Practically identical with BLUE WATSON.



DIXIE QUEEN

DARLINGTON (GARRISON, COKER) 85-90 days

A very large and sweet melon for local southern markets, with fruits that weigh 30-40 lbs. The flesh is bright red, sweet and tender, the rind thin and tender with irregular dark green stripes and veining on a light background. The seeds are white.

DIXIE QUEEN (WHITE SEEDED CUBAN QUEEN) 80-85 days

One of the most popular varieties in the South for shipping and in the North as well. Fruits weigh 30-35 lbs., and are nearly round with square ends. The skin is light green with dark green stripes, the rind thin and tough. The bright red flesh is of finest quality, and the seeds are small and white.

DIXIE QUEEN, WILT RESISTANT 80-85 days

This strain differs from the regular DIXIE QUEEN in being resistant to fusarium wilt, with a tougher rind, redder flesh and somewhat larger seeds.

DUDE CREEK 87-92 days

A large, long, cylindrical melon with blunt ends and a hard, thin rind which is very light green with irregular stripes of dark green. In the South it is used for local markets and distant shipping. The flesh is bright red, sweet and solid. Seeds are white, edged with light brown.

EARLY BIRD 75-80 days

This is one of the "icebox" types of melon, which has really good quality, though small in size. Fruits are globular to slightly elongated, 8-10" in length and weigh 5-8 lbs. The rind is thin, medium tough, medium green with inconspicuous dark green broken stripes. The flesh is medium red to pink and medium fine grained. The seeds are very small, dark brown. This melon matures in Connecticut early in August.

EARLY KANSAS (KANSAS QUEEN, INDIANA STRIPED, KANSAS RED SEED) 80 days

A popular shipping variety in the Midwest. Fruits are large, nearly round with a thin, tough rind with stripes of light and dark green. The flesh is stringless and fine textured, bright red and very sweet. The seeds are bright maroon when immature, changing to buff when dry.

EXCEL 85-90 days

A southern shipping variety of indifferent quality, fruits 20-25 lbs., oblong in shape. The dark green rind is tough, the flesh deep red. The seeds are white and medium sized.

FLORIDA FAVORITE 88-92 days

The large, cylindrical fruits run from 24 to 28 lbs. in weight, the rind is light green with dark green stripes and is fairly tough. The flesh is bright red and of high quality, the seeds white. Used in the South in home and market gardens.

FLORIDA GIANT (CANNON BALL, BLACK DIAMOND) 90-95 days

A fine shipper, vigorous and productive, with fruits averaging about 40 lbs., large, nearly round and with a hard, tough and very dark green rind. The seeds are large, mottled dark brown, the flesh bright red, coarse grained, high quality and firm.

GEORGIA RATTLESNAKE (GYPSY) 85-90 days

A fairly good shipper, this variety has large, long fruits which are gray-green with irregular darker green striping. The rind is tough. The flesh has good quality, the seeds are large, ivory white with black tip.

GOLDEN HONEY (GOLDEN SWEET, HONEY CREAM) 85-90 days

The flesh of this small melon is a bright yellow, with fine flavor. Fruits are round or nearly so, about a foot in diameter, and average about 20 lbs. The rind is dark green with irregular darker green stripes. The seeds are brown.

GRAYSTONE ALL-AMERICA SELECTIONS Silver Medal 1933 90-95 days

Adapted to home gardens and nearby markets in the South. The rind is thin, tender, mottled gray-green, and bruises easily. Fruits weigh 30-35 lbs., are very large, oval-round and of the STONE MOUNTAIN type. The flesh is of excellent quality, bright red, the seeds medium sized and white.

HALBERT'S HONEY 85 days

A melon similar to KLECKLEY'S SWEET, with large, cylindrical, blunt ended fruits which grow to 30-35 lbs. The rind is tender and thin, dark green and lightly veined. The flesh is bright red and of fine flavor, the seeds medium sized, white with black tip.

HAWKESBURY (GRAY SHIPPER) 85-90 days

A shipping variety of the IRISH GRAY type, developed by the Australian Department of Agriculture, producing large, long fruits which are tapered at both ends and weigh 30-35 lbs. The rind is thin but very tough, light gray-green with veining of dark green. The flesh is light red, good quality, the seeds brownish black and medium sized. Wilt resistant.

HUNGARIAN HONEY 85-90 days

A home garden variety with nearly round fruits that weigh about 8 lbs. The rind is thin, medium green veined with dark green, the flesh bright red, the seeds small and brown.

ICEBOX, BLACK SEEDED 85 days

A home novelty. "Icebox" is a term indicating a type rather than a variety, and several varieties small enough to fit conveniently in a refrigerator are given this name. The fruits are small, the rind thin, the flesh may be red, orange and white, the seeds usually black.

IRISH GRAY 87-92 days

Very productive and a good shipper. The fruits weigh 30-35 lbs. and are oblong. The flesh is bright red and fiberless, the rind very tough, gray-green, the seeds white.

KLECKLEY'S SWEET (WONDERMELON, IMPROVED KLECKLEY)

85 days

Not suitable for shipping, but ideal for home gardens, with fruits weighing 30-35 lbs., which are large, cylindrical, dark green with slight ribbing. The rind is thin and tender, the flesh bright red, high quality; the seeds large, white with occasional traces of brown.

KLECKLEY'S SWEET NO. 6

85 days

A wilt resistant melon developed by Dr. J. J. Wilson at the Iowa Agricultural Experiment Station. Of the same type as KLECKLEY'S SWEET, but with a thin, tough rind, and white seeds.

KLONDIKE, BLACK SEEDED

85 days

A variety grown in California, similar to STRIPED KLONDIKE, but with a solid dark green rind and small black seeds.

KLONDIKE R7

80-85 days

A variety resistant to fusarium wilt, developed at the College of Agriculture, Davis, California. Fruits average about 25 lbs., are oblong and taper slightly at the blossom end. The dark green rind is thin but tough. The flesh is a brilliant red, the seeds small and vary from tan to black.

KLONDIKE, STRIPED

85 days

A variety popular in California, producing medium sized (20-25 lbs.) fruits which are thick cylindrical. The rind has irregular dark green stripes on a lighter green ground. The flesh is deep red, sweet and crisp. The seeds are small and both black and white.

LEESBURG

85-90 days

A development from KLECKLEY'S SWEET by Dr. M. N. Walker of the Florida Experiment Station, and the fruits resemble that variety but are shorter and more blocky, weighing 25-28 lbs. The variety is wilt resistant. The rind is dark green and tough, the flesh light red and very sweet, with medium sized, white seeds.

LONG DIXIE IMPROVED

85-90 days

A fairly good shipping melon of medium size (25-30 lbs.), oval to long oval. The rind is thin and tough, light green with narrow stripes of darker green. The deep red flesh is of excellent quality, with white, medium sized seeds.

LONG LIGHT ICING (GRAY MONARCH)

90-95 days

A long, cylindrical melon, 25-30 lbs., with a thin, light green rind mottled with darker green. It has deep red flesh of good quality, and medium sized, white seeds.

MOUNTAIN HOOSIER

90 days

A very large, oval-round melon with blunt ends, which reaches a weight of 50-60 lbs. It has a dark green, tough rind, bright red flesh of finest quality. The medium sized seeds are white, edged with black.

MOUNTAIN SWEET

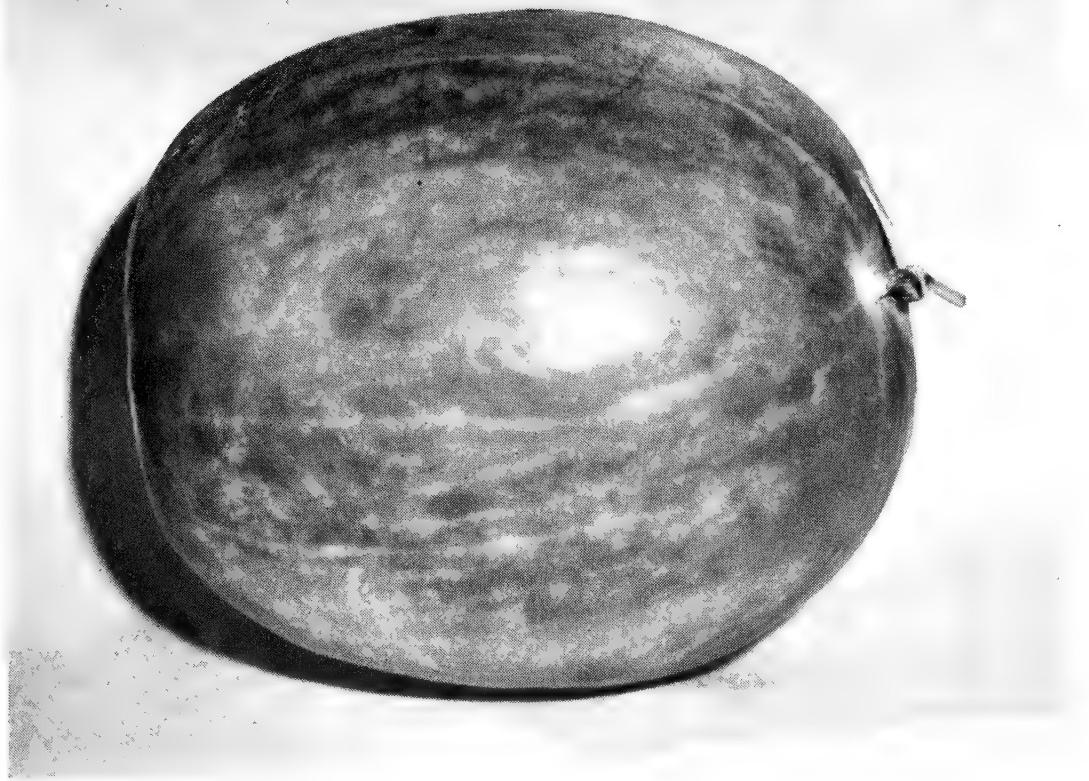
80 days

An old variety for home garden and local markets only. Fruits weigh about 20 lbs., are medium large, oval. The rind is fairly thick and dark green, the flesh sweet, dark red. The black seeds are of medium size.

NANCY HANKS

85 days

A variety with a rind tough enough for long distance shipping. The fruits are round with dark green stripes on a lighter green ground, and average about 30 lbs. The flesh is of good quality, bright red, with white seeds.



STONE MOUNTAIN

OWEN'S GRAY (ARNELL'S GRAY, ARNOLD'S GRAY, GRAY JACKET)

85-90 days

This variety has some drought tolerance and produces fruits weighing 25-30 lbs., of long oval shape. The rind is medium thick, tough, pale greenish white with darker green veins which give it a gray appearance. The flesh is firm, sweet, bright scarlet and without stringiness. The seeds are of medium size, brownish, blotched white.

PEERLESS (ICE CREAM) 85-90 days

A good home garden melon with medium size, oval fruits, 18-20 lbs. The rind is thin, bright green with darker green veining. The flesh is of good quality, bright red, with white seeds of medium size.

ROUND LIGHT ICING 90-95 days

A home garden variety, with thin, tender rind which is pale green and lightly veined. Fruits average 20-25 lbs. and are a broad oval shape. The flesh is light red and of good quality, with white, medium sized seeds.

SCHOCKLER 90-95 days

The variety originated in Texas and has a hard, tough, dark green rind with faint striping. A good shipper, with dark red flesh of fair quality, coarse grained. The seeds are large, brown. Fruits weigh 40-50 lbs., are very long and cylindrical.

STONE MOUNTAIN

90 days

The rind of this melon is hard and fairly tough, medium green with slight veining. The fruits are very large (35-40 lbs.), round-oval with blunt ends. The flesh is bright red, very sweet and of good quality. The seeds are medium sized, white with black tip.

STONE MOUNTAIN NO. 5

80-85 days

The Iowa Agricultural Experiment Station developed this strain which is resistant to fusarium wilt. It is earlier and slightly smaller than the original strain, its rind is not as tough nor the quality as good.

SUPER RED HEART

90 days

An improved STONE MOUNTAIN, slightly larger than that variety, oval in shape, with a hard and tough rind which is medium to dark green. The flesh is bright red, very sweet and stringless. The seeds are white with black tip.

SWEETHEART

85-90 days

A home garden melon with medium sized fruits weighing 20-25 lbs., nearly round, light or gray-green with veining of darker green. The rind is tough, the flesh light red, seeds black.

TENDER SWEET (BANKHEAD)

75-80 days

The flesh of this melon is a golden yellow, the fruits long and cylindrical, weighing 30-35 lbs. The rind is dark green with a lighter green stripe, and thick enough to ship well.

TEXAS SWEETHEART (TEXAS SWEET)

90 days

A very large melon averaging 30-45 lbs. with fruits an elongated oval shape. The rind is tough, medium to dark green with irregular or mottled lighter stripes. The flesh is red and very sweet. The seeds are very small, black, with small white speckles.

THURMOND GRAY

90-95 days

A wilt resistant variety with large, long, cylindrical fruits which weigh 35-40 lbs. The rind is exceedingly hard and tough and is light green with darker veining. The flesh is deep red and fine quality. The seeds are brown, medium sized.

TOM WATSON

90-95 days

A standard shipping variety weighing 35-40 lbs. Fruits are very large, cylindrical, with a thin but tough rind which is a dark green with fine veining of even darker green. The flesh is dark red and firm, with large, brown seeds.

U.S.D.A. 46-40

90 days

A new variety developed by the U.S.D.A. Vegetable Breeding Laboratory at Charleston, S. C., and as yet not officially named. It is resistant to anthracnose, the only shipping variety having this quality, which gives it great promise. The fruits are similar to DARLINGTON, weigh 32-40 lbs., and have a very tough rind which is dark green with darker green stripes. The flesh is a very bright red, medium grain, and ripens well out to the rind. The seeds are white with black tip and side markings.

WHITE MOUNTAIN (MIDGET) 65-70 days

A very small, early, "icebox" type developed by the New Hampshire Agricultural Experiment Station. The fruits weigh about 5 lbs., are nearly round, with a thin, light green rind with darker stripes. The flesh is sweet and red, the seeds small, dark brown.

WINONA 90-95 days

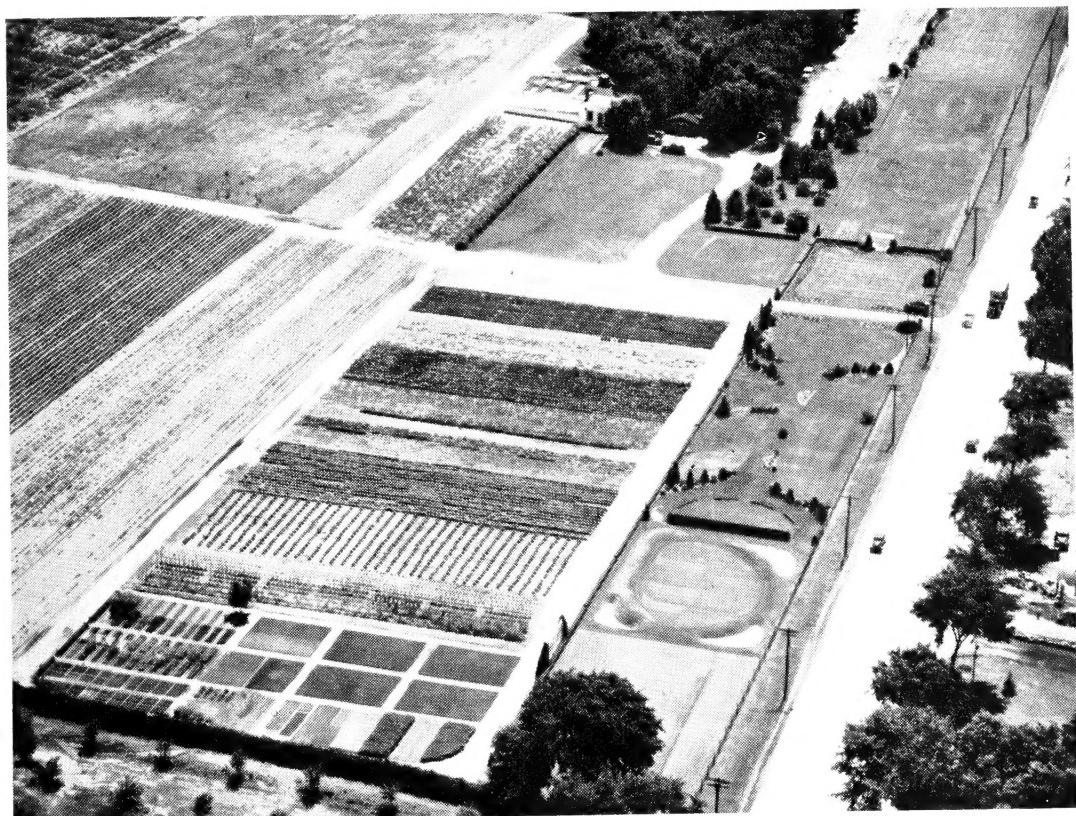
The fruits are large, 30-45 lbs., cylindrical and blocky, somewhat like a long type of FLORIDA GIANT. The rind is tough, dark green. It has bright red flesh of good quality. The seeds are black.

WINTER KING (WINTER QUEEN) 90 days

The fruits are round and smooth, and weigh about 15 lbs. The rind is thin and tough, a light green faintly striped. It has bright red flesh of good quality, with small, blackish seeds.

WINTER KING, GRAY SEEDED (CHRISTMAS) 90 days

Except for seed color, this is the same as WINTER KING, but can be kept until Christmas if coated with wax.



LOCATED ON ROUTE U. S. 1 (BOSTON POST ROAD), PART OF OUR BREEDING AND TRIAL GROUNDS AT MILFORD, CONN.



